Form 3160-3 (March 2012) NM OIL CONSERVATIO性

ARTESIA DISTRICT

FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014

6. If Indian, Allotee or Tribe Name

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 26 20%

5. Lease Serial No. NMNM03677

APPLICATION	FOR PERMIT	TO DRILL	OR	REBATER\/F	
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la. Type of work: DRILL RI	EENTER		7. If Unit or CA Agreemen	
lb. Type of Well: Oil Well Gas Well Other	Single Zone 🗾 Mu	ltiple Zone	8. Lease Name and Well CUEVA DE ORO FEDI	
Name of Operator MATADOR PRODUCTION COMI	PANY 22893	7	9. API Well No. 30-015-9	44765
3a. Address 5400 LBJ Freeway, Suite 1500 Dallas TX	3b. Phone No. (include area code) (972)371-5200		10. Field and Pool, or Explo GETTY; BONE SPRIN	•
4. Location of Well (Report location clearly and in accordance	with any State requirements.*)		11. Sec., T. R. M. or Blk. an	d Survey or Area
At surface NWNW / 884 FNL / 300 FWL / LAT 32.5	5637648 / LONG -104.087639		SEC 21 / T20S / R29E	/ NMP
At proposed prod. zone SWSW / 240 FSL / 330 FWL	/ LAT 32,5523353 / LONG -104.08	375412		
 Distance in miles and direction from nearest town or post office miles 	ce*		12. County or Parish EDDY	13. State NM
15. Distance from proposed* location to nearest 300 feet property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 2150.97	17. Spaci 160	ng Unit dedicated to this well	
18. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.	19. Proposed Depth 9230 feet / 13596 feet		/BIA Bond No. on file ·	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3269 feet	22. Approximate date work will 04/01/2017	start*	23. Estimated duration 90 days	
	24. Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- . Such other site specific information and/or plans as may be required by the BLM.

Name (Printed/Typed)	Date					
Brian Wood / Ph: (505)466-8120	03/23/2017					
Name (Printed/Typed)	Date					
Cody Layton / Ph: (575)234-5959	02/08/2018					
Office						
CARLSBAD						
	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959 Office					

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)



RW 3-1-18-

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 1: 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 well, 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 directionally 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.

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 well 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 will 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 collects this information to allow 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 Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3) (Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

1. SHL: NWNW / 884 FNL / 300 FWL / TWSP: 20S / RANGE: 29E / SECTION: 21 / LAT: 32.5637648 / LONG: -104.087639 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 884 FNL / 300 FWL / TWSP: 20S / RANGE: 29E / SECTION: 21 / LAT: 32.5637648 / LONG: -104.087639 (TVD: 0 feet, MD: 0 feet)

BHL: SWSW / 240 FSL / 330 FWL / TWSP: 20S / RANGE: 29E / SECTION: 21 / LAT: 32.5523353 / LONG: -104.0875412 (TVD: 9230 feet, MD: 13596 feet)

BLM Point of Contact

Name: Judith Yeager

Title: Legal Instruments Examiner

Phone: 5752345936 Email: jyeager@blm.gov

(Form 3160-3, page 3)

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

(Form 3160-3, page 4)

NM OIL CONSERVATION

ARTESIA DISTRICT

CEB 26 20%

PECOS DISTRICT **DRILLING OPERATIONS** CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME: Matador Production Company

> LEASE NO.: | NMNM03677

WELL NAME & NO.: | 131H-Cueva De Oro Federal

SURFACE HOLE FOOTAGE: 884'/N & 300'/W BOTTOM HOLE FOOTAGE | 240'/S & 330'/W

LOCATION: | Section 21, T.20 S., R.29 E., NMPM

COUNTY: | Eddy County, New Mexico

A. **DRILLING OPERATIONS REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in the area, it is always a potential hazard. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. 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, report measured amounts and formations to the BLM.
- 2. 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. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 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 is 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 submitted to the BLM

office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High Cave/Karst

Capitan Reef

Possible water flows in the Artesia Group and Salado.

Possibility of lost circulation in the Artesia Group, Rustler, Capitan Reef, and Delaware.

A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH. THEREFORE, ONE INCH OPERATIONS ARE NOT SUFFICIENT TO PROTECT CAVE KARST RESOURCES. A CASING DESIGN THAT HAS A ONE INCH JOB PERFORMED DOES NOT COUNT AS A SOLID SHEATH.

1. The 20 inch surface casing shall be set at approximately 400 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.

- a. If cement does not circulate to the 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 six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 13-3/8 inch 1st intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
- 3. The minimum required fill of cement behind the 9-5/8 inch 2nd intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 50 feet above the Capitan Reef, which will be 1560 feet (Top of Capitan Reef at 1610 feet). Operator shall provide method of verification. Excess calculated to 11%. Additional cement might be required.
- 5. 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.

C. 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 53.
- 2. Variance approved to use flex line from BOP to choke manifold. 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. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 20 inch surface casing shoe shall be 2000 (2M) annular.

Option 1:

- i. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch first intermediate casing shoe shall be 2000 (2M) psi.
- ii. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 inch second intermediate casing shoe shall be 3000 (3M) psi.

Option 2:

- only be tested when installed on the first intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch first intermediate casing shoe shall be 3000 (3M) psi.
 - 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. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
- e. 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.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the 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. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. 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.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - f. 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 if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

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.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

TMAK 09152017

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NM OIL CONSERVATION
ARTESIA DISTRICT

EB 26 20%

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

RECEIVED

OPERATOR'S NAME:	Matador Production Company
LEASE NO.:	NMNM03677
WELL NAME & NO.:	131H-Cueva De Oro Federal
SURFACE HOLE FOOTAGE:	884'/N & 300'/W
BOTTOM HOLE FOOTAGE	240'/S & 330'/W
LOCATION:	Section 21, T.20 S., R.29 E., NMPM
	Eddy County, New Mexico

TABLE OF CONTENTS

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.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements.
Cave/Karst
Watershed
Range
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment & Reclamation

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)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The entire perimeter of the well pad 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 high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- 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 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 access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities 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.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Watershed

• The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. 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 berm shall be maintained through the life of the well and 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.

Range

A water well, windmill, and livestock water tank are located approximately 0.10 miles northwest of the proposed Cueva de Oro Federal Slot 2 well pad and would not be impacted by the construction of the well pad.

Any damage to fences, cattle guards, and pipelines or structures that provide water to livestock during construction and throughout the life of the project as caused by its operation, must be immediately corrected by the Applicant. The Applicant must notify the grazing allottee or the private surface landowner and the BLM-CFO (575-234-5972) if any damage occurs to pipelines or structures that provide water to livestock.

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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

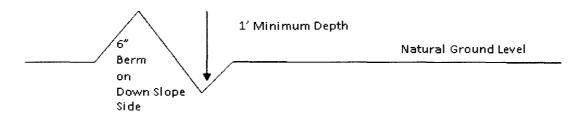
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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.

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
- 4. Revegetate slopes

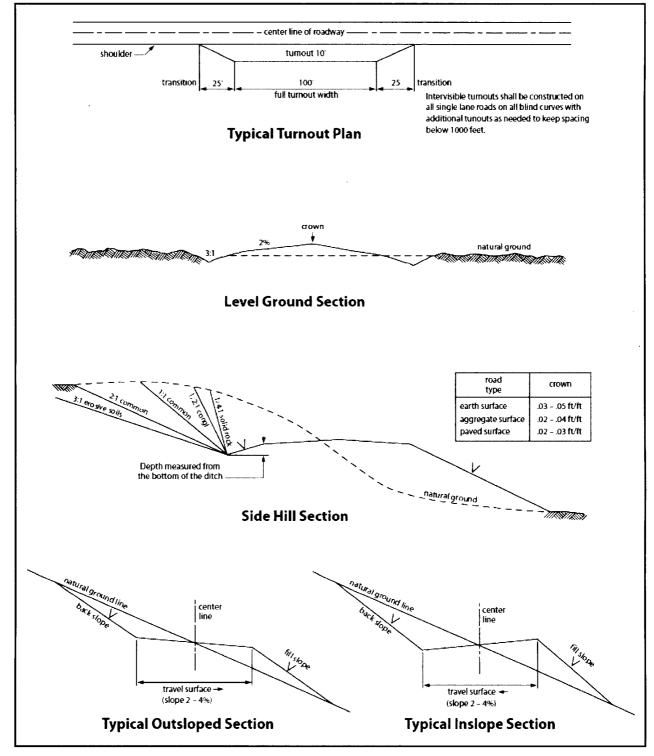


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 1 ½ 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

Page 10 of 13

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).

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).

Mixture 4, for Gypsum Sites

The holder shall seed all the 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	<u>lb/acre</u>
Alkli Sacaton (Sporobolus airoides)	1.5
DWS~ Four-wing saltbush (Atriplex canescens)	8.0

~DWS: DeWinged Seed

Pounds of seed x percent purity x percent germination = pounds pure live seed

^{*}Pounds of pure live seed:



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filling of false statements.

NAME: Brian Wood		Signed on: 03/23/2017
Title: President		
Street Address: 37 Verano Loop		
City: Santa Fe	State: NM	Zip: 87508
Phone: (505)466-8120		
Email address: afmss@permitswe	st.com	
Field Representative		
Representative Name:		•
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



APD ID: 10400012359

Submission Date: 03/23/2017

Highlighted data reflects the most

Operator Name: MATADOR PRODUCTION COMPANY

recent changes

Well Name: CUEVA DE ORO FEDERAL

Well Number: 131H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400012359

Tie to previous NOS?

Submission Date: 03/23/2017

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM03677

Lease Acres: 2150,97

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? YES

APD Operator: MATADOR PRODUCTION COMPANY

Operator letter of designation:

Operator Info

Operator Organization Name: MATADOR PRODUCTION COMPANY

Operator Address: 5400 LBJ Freeway, Suite 1500

Operator PO Box:

Zip: 75240

Operator City: Dallas

State: TX

Operator Phone: (972)371-5200

Operator Internet Address: amonroe@matadorresources.com

Section 2 - Well Information

Well in Master Development Plan? NO

Mater Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: CUEVA DE ORO FEDERAL

Well Number: 131H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: GETTY; BONE

Pool Name: GETTY BONE

SPRING

SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, CO2, OIL

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Describe other minerals:

Is the proposed well in a Helium production area? N Use Existing Well Pad? YES New surface disturbance?

Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: Number: SLOT 1

Well Class: HORIZONTAL CUEVO DE ORO
Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:
Well sub-Type: INFILL

Describe sub-type:

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: Cueva_131H_Plat_05-10-2017.PDF

Well work start Date: 04/01/2017 Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: 18329

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL	884	FNL	300	FWL	20S	29E	21	Aliquot	32.56376	-	EDD	!	NEW		NMNM	326	0	0
Leg								NWN	48	104.0876	Υ	MEXI	l		03677	9	,	
#1								W		39		СО	СО					
KOP	884	FNL	300	FWL	20S	29E	21	Aliquot	32.56376	-	EDD	NEW	NEW	F	NMNM	266	600	600
Leg								NWN	48	104.0876	Υ	MEXI			03677	9		
#1								w		39		co	СО					
PPP	884	FNL	300	FWL	208	29E	21	Aliquot	32.56376	_	EDD	NEW	NEW	F	NMNM	326	0	0
Leg		!						NWN	48	104.0876	Υ	MEXI	l		03677	9		
#1						}		w		39		СО	co					

Well Name: CUEVA DE ORO FEDERAL

Well Number: 131H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	240	FSL	330	FWL	20\$	29E	21	Aliquot SWS W	32.55233 53	- 104.0875 412	EDD Y	NEW MEXI CO	NEW MEXI CO		NMNM 03677	- 596 1	135 96	923 0
BHL Leg #1	240	FSL	330	FWL	208	29E	21	Aliquot SWS W	32.55233 53	- 104.0875 412	EDD Y	NEW MEXI CO	NEW MEXI CO		NMNM 03677	- 596 1	135 96	923 0

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 1220 S. St. Francis Dr., Sante Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

NM OIL CONSERVATIO ARTESIA DISTRICT Energy, Minerals & Natural Resources EB 26 200

FORM C-102 Revised August 1, 2011

Submit one copy to appropriate

District Office

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Sante Fe, NM 87505

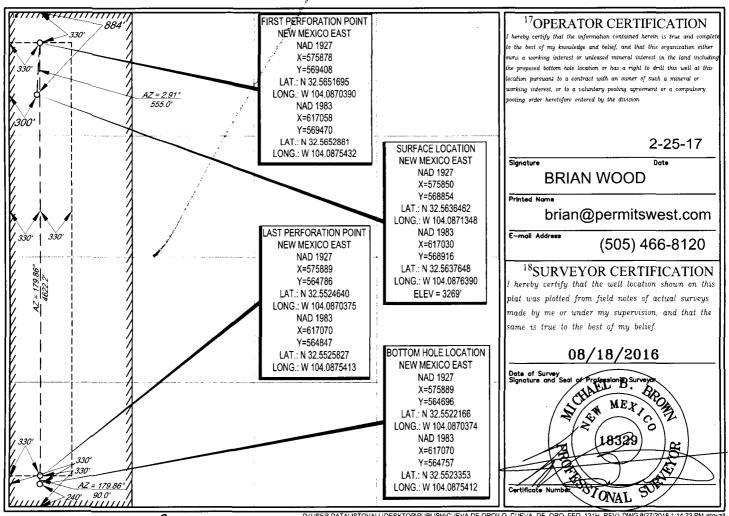
Department

RECEIVED

AMENDED REPORT

*3rd Bone Spring sand WELL LOCATION AND ACREAGE DEDICATION PLAT ¹API Number Pool Code 30-015- 44765 27470 **GETTY: BONE SPRING*** ⁴Property Code ⁵Property Name Well Number 32083 CUEVA DE ORO FED #131H ⁸Operator Name OGRID No. ⁹Elevation 228937 MATADOR PRODUCTION COMPANY 3269 ¹⁰Surface Location UL or lot no. Lot Idn Feet from the North/South ling Feet from the East/West line County Township D 21 20-S 29-E 884 NORTH/ 300' WEST **EDDY** UL or lot no. North/South lin Feet from th East/West line Township Feet from th Section Rang Lot Ide SOUTH 330' WEST **EDDY** M 21 20-S 29-E 240' ¹²Dedicated Acres Joint or Infill ⁴Consolidation Code ⁵Order No. 160

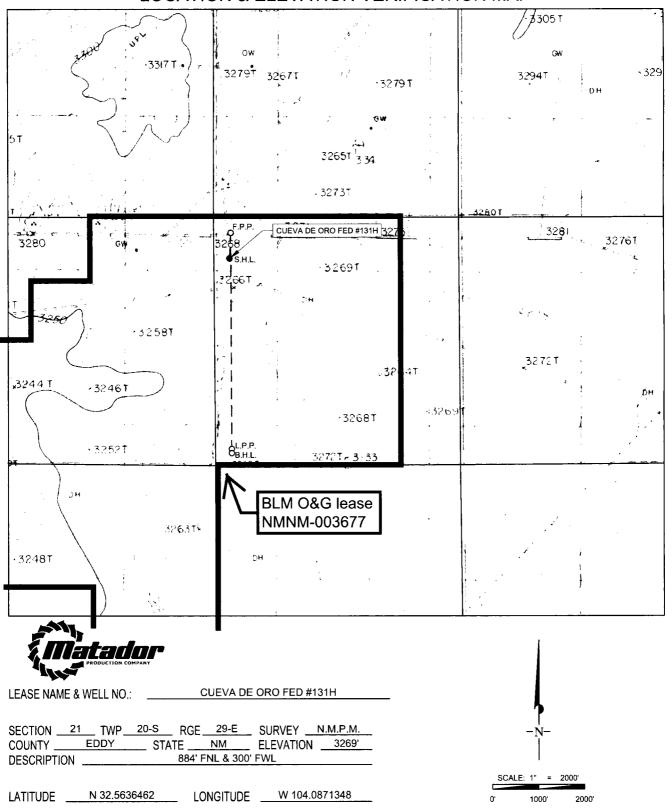
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by



Rul-3-1-18

D:\USER DATAUSTOVALL\DESKTOP\PUBLISH\CUEVA DE ORO\LO_CUEVA DE ORO_FED_131H_REV1.DWG 8/27/2016 1:14:23 PM

LOCATION & ELEVATION VERIFICATION MAP

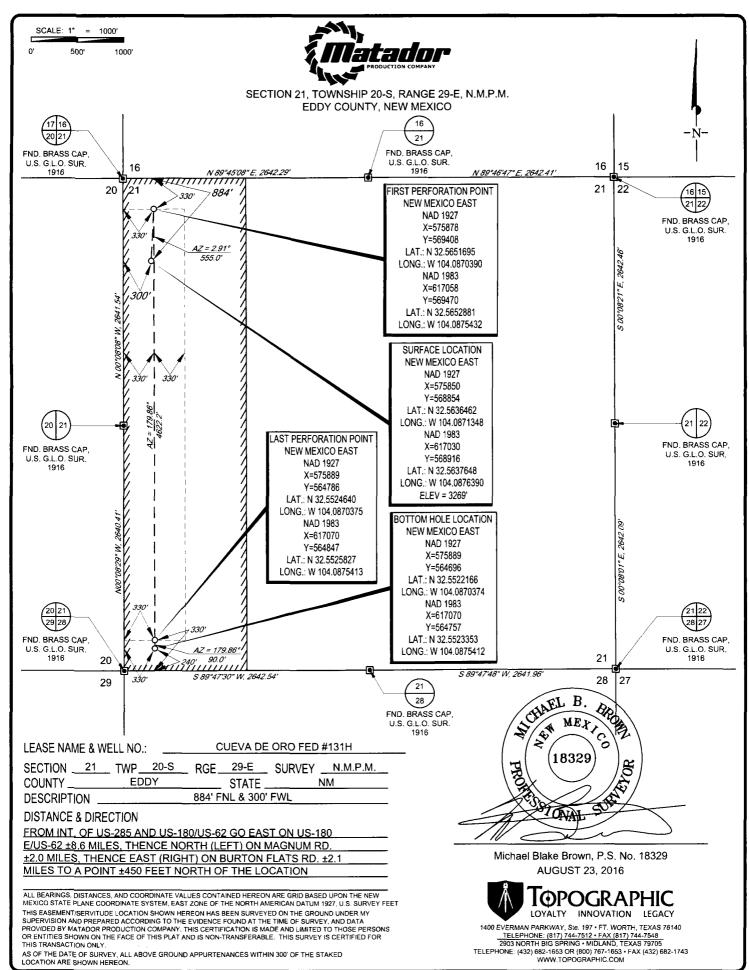


THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY EFET.



1400 EVERMAN PARKWAY, Ste. 197 - FT. WORTH. TEXAS 76140
TELEPHONE: (817) 744-7512 - FAX (817) 744-7542
2903 NORTH BIG SPRING - MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 07 (800) 767-1653 - FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

Submission Date: 03/23/2017

Highlighted data reflects the most

recent changes

Well Name: CUEVA DE ORO FEDERAL

Operator Name: MATADOR PRODUCTION COMPANY

Well Number: 131H

Show Final Text

Well Type: OIL WELL

APD ID: 10400012359

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1		3269	0	0	OTHER : Caliche	USEABLE WATER	No
2	SALADO	2829	440	440	SALT	OTHER : None	No
3	YATES	2059	1210	1210	OTHER : Gypsum	OTHER : None	No
4	SEVEN RIVERS	1744	1525	1527	DOLOMITE	OTHER : None	No
5	CAPITAN REEF	1659	1610	1611	LIMESTONE	USEABLE WATER	No
6	CHERRY CANYON	189	3080	3100	SANDSTONE	NATURAL GAS,OIL	No
7	BRUSHY CANYON	-1051	4320	4327	SANDSTONE	NATURAL GAS,OIL	No
8	BONE SPRING LIME	-2641	5910	5917	LIMESTONE	NATURAL GAS,OIL	No
9	BONE SPRING 1ST	-3296	6565	6577	OTHER : Carbonate	NATURAL GAS,OIL	No
10	BONE SPRING 1ST	-3736	7005	7012	SANDSTONE	NATURAL GAS,OIL	Yes
11	BONE SPRING 2ND	-4016	7285	7287	OTHER : Carbonate	NATURAL GAS,OIL	No
12	BONE SPRING 2ND	-4476	7745	7763	SANDSTONE	NATURAL GAS,OIL	No
13	BONE SPRING 3RD	-4801	8070	8100	OTHER : Carbonate	NATURAL GAS,OIL	No
14	BONE SPRING 3RD	-5611	8880	8889	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Pressure Rating (PSI): 5M Rating Depth: 10000

Equipment: After 20" surface casing, a BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be installed. The BOP will be used below intermediate casing 1 to TD. See attached BOP and choke manifold diagrams. An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed

Requesting Variance? YES

Variance request: Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.

Testing Procedure: Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required by Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. A third party company will test the BOPs. Intermediate 1 casing pressure tests will be made to 250 psi low and 2000 psi high. Intermediate 2 casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 2500 psi high on the intermediate 1 casing and tested to 250 psi low and 2500 psi high on the intermediate 2 casing. In the case of running a speed head with landing mandrel for 9.625" casing, initial intermediate 1 casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9.625" casing has been landed and cemented. Matador requests a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875".

Choke Diagram Attachment:

Cueva_131H_Choke_03-15-2017.pdf

BOP Diagram Attachment:

Cueva_131H_BOP_03-17-2017.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	26	20.0	NEW	API	N	0	400	0	400	3269	2869	400	K-55		OTHER - BTC	I_	1.12 5	DRY	1.8	DRY	1.8
	INTERMED IATE	17.5	13,375	NEW	API	N	0	1220	0	1220	3269	2049	1220	J-55		OTHER - BTC		1.12 5	DRY	1.8	DRY	1.8
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3100	0	3100	3269	169	3100	J-55		OTHER - BTC	1.12 5	1.12 5	DRY	1.8	DRY	1.8
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	13596	0	9230	3269	-5961	13596	P- 110	1	OTHER - DWC/C	I .	1.12 5	DRY	1.8	DRY	1.8

Casing Attachments Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Casing_Design_Assumptions_Cueva131H_Surface_03-23-2017.docx Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Casing_Design_Assumptions_Cueva131H_Intermediate_03-23-2017.docx Casing ID: 3 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): Casing_Design_Assumptions_Cueva131H_Intermediate_03-23-2017.docx

Well Number: 131H

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CUEVA DE ORO FEDERAL

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_Cueva131H_Production_03-23-2017.docx

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	400	873	1.38	14.8	1204	100	Class C	5% NaCl + LCM

INTERMEDIATE	Lead	0	1220	528	2.09	12.6	1103	100	Class C	Bentonite + 1% CaCl2 + 8% NaCl + LCM
INTERMEDIATE	Tail	0	1220	322	1.38	14.8	444	100	Class C	5% NaCl + LCM
INTERMEDIATE	Lead	0	3100	497	2.48	11.9	1232	100	Class C	Bentonite + 2% CaCl2 + 3% NaCl + LCM
INTERMEDIATE	Tail	0	3100	308	1.26	14.4	388	100	Class C	5% NaCl + LCM
PRODUCTION	Lead	0	1359 6	810	2.25	11.5	1822	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail	0	1359 6	1461	1.38	13.2	2016	35	TXI	Fluid Loss + Dispersant + Retarder + LCM

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Barite, Bentonite, LCM

Describe the mud monitoring system utilized: An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions. A closed loop system will be used.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
3100	1359 6	OTHER : Fresh water & cut brine	9	9							
0	400	SPUD MUD	8.4	8.4							
400	1220	SALT SATURATED	10	10							
1220	3100	WATER-BASED MUD	8.4	8.6							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

A 2-person mud-logging program will be used from 1220' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate 2 casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

List of open and cased hole logs run in the well:

CBL,GR,MUDLOG

Well Name: CUEVA DE ORO FEDERAL

Well Number: 131H

Coring operation description for the well:

No coring planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4615

Anticipated Surface Pressure: 2584.4

Anticipated Bottom Hole Temperature(F): 135

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Cueva_131H_H2S_Plan_03-15-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Cueva_131H_Horizontal_Drilling_Plan_03-15-2017.pdf

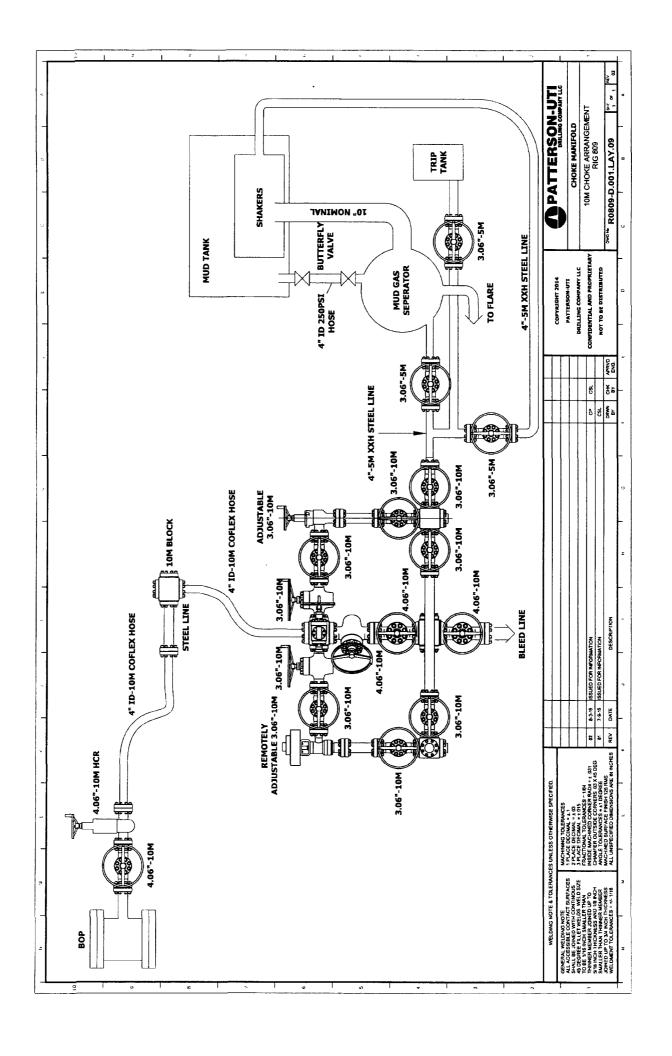
Other proposed operations facets description:

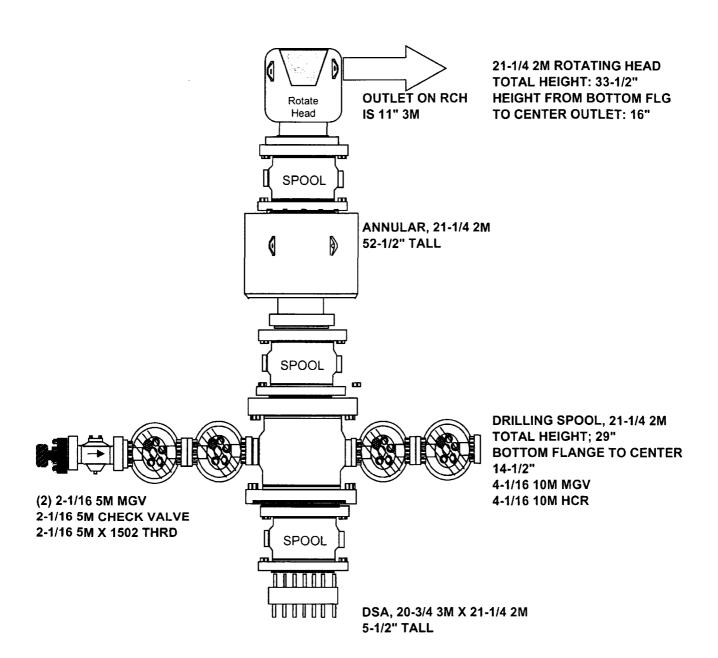
Wellhead Casing

Other proposed operations facets attachment:

Cueva_131H_Wellhead_Casing_Spec_03-15-2017.pdf Cueva_131H_General_Drilling_Plan_03-16-2017.pdf

Other Variance attachment:

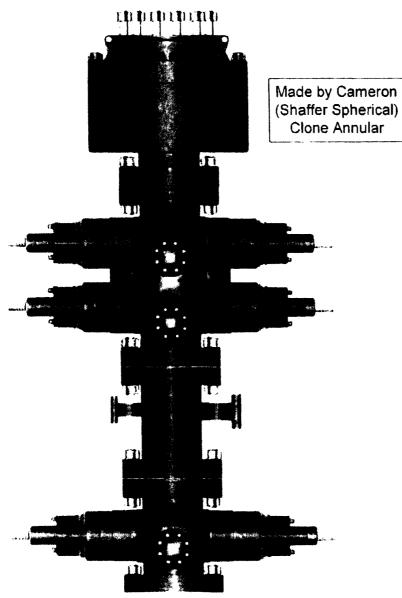




SPOOL HEIGHTS CAN BE ADJUSTED AS NEEDED*







PATTERSON-UTI # ____PS2-628

STYLE: ___New Shaffer Spherical

BORE ___13_5/8" ___PRESSURE ___5,000

HEIGHT: ___48_½" ___WEIGHT: __13,800 lbs

PATTERSON-UTI # PC2-128

STYLE: New Cameron Type U

BORE 13 5/8" PRESSURE 10,000

RAMS: TOP 5" Pipe BTM Blinds

HEIGHT: 66 5/8" WEIGHT: 24,000 lbs

Length <u>40"</u> Outlets <u>4" 10M</u>

DSA <u>4" 10M x 2" 10M</u>

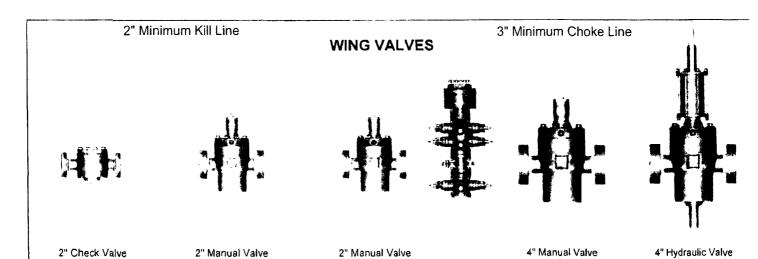
PATTERSON-UTI # ____PC2-228

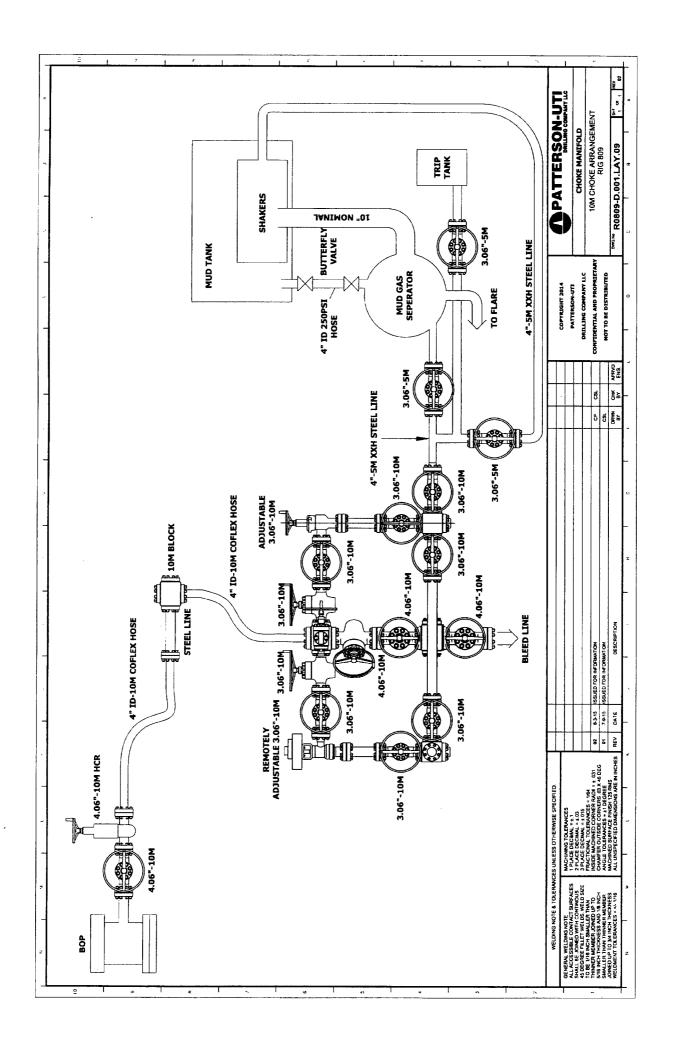
STYLE: New Cameron Type U

BORE ____13_5/8" PRESSURE ____10,000

RAMS: _____5" Pipe

HEIGHT: ___41_5/8" WEIGHT: ____13,000 lbs





Internal Hydrostatic Test Graph

Customer: Patterson B&F

Pick Ticket #: 296283

/erification	Coupling Method Swage	Fina <u>l O.D.</u> 4.03	<u> Hose Assembly Serial #</u> 296283		
Verifi	Type of Fitting 2°1502	Die Size 97MN	H <u>ose Serial #</u> 11839		
Hose Specifica <u>tions</u>	Lengsh 50°	0.D. 3.47"	Burst Pressure		
	How Type	LD.	Working Pressure 1000 PSI		
Midwest Hose & pecialty, Inc.					

Pressure Test

00031

	The transfer of the transfer o	11 40 11 50 11 50 11 51 10 51 15 15 15 15 15 15 15 15 15 15 15 15
		X
		8
		:3
		8
		*
· · · · · · · · · · · · · · · · · · ·		14000

Comments: Hose assembly pressure tested with water at ambient temperature

Tested By: Nichard Davis

Peak Pressure 15361 PSI

Actual Burst Pressure

Time Held at Test Pressure 17 3/4 Minutes

Test Pressure 15000 PSI

Approved By: Ryan Adams



Midwest Hose & Specialty, Inc.

General Infor	mation	Hose Spec	ifications
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2
Date Assembled	3/10/2015	Hose Grade	MUD
Location Assembled	окс	Hose Working Pressure	10000
Sales Order #	245805	Hose Lot # and Date Code	11839-11/14
Customer Purchase Order #	270590	Hose I.D. (Inches)	2"
Assembly Serial # (Pick Ticket #)	296283	Hose O.D. (Inches)	3.99"
Hose Assembly Length	50'	Armor iyes/no,	YES
A CONTRACTOR OF THE CONTRACTOR	£.	ttinas	
End A		End	В
Stem (Part and Revision #)	R2.0X32M1502	Ste artiona	RF2.0 32F1502
Stem (Heat II)	14104546	Ster. eat#)	A14485 3
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044
Connection . Flange Hammer Union Pa	rt		The state of the s
Connection (Heat #)		Cor Hea:	TO COMPANY OF THE PARK THE PAR
Nut (Part #)	2" 1502 H2S	Nut (Part #)	
Nut (Heat#)		Nut (Heat#)	
Dies Used		Dies Used	97MM
	Hydrostatic T	es equirements	
Test Pressure _(Psi)	15,000	Hose assembly was teste	ed with ambient water
Test Pressure Hold Time (minutes)	17 3/4	temperature.	



Certificat	te of Conformity			
Customer: PATTERSON B&E	Customer P.O.# 270590			
Sales Order # 245805	Date Assembled: 3/10/2015			
Spe	ecifications			
Hose Assembly Type: Choke & Kill				
Assembly Seriai # 296283	Hose Lot # and Date Code	11839-11/14		

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date
Far Alana	3/19/2015

Internal Hydrostatic Test Graph

Dekember 24, 2014

andwest lose & Specialty, Inc.

Pick Ticket #: 286159

Customer: Patterson

Verification Type of Fitting 2" 1502 97MN Hose Serial # 11784 Die Size stondam Crisis, Muhipher Applie **Burst Pressure** Length 0.D. 3.55" Hose Specifications Working Pressure 10000 PSI

Pressure Test

Hose Assembly Serial # 286159

Coupling Method Final 0.D.

> 15000 14000

18000

12000

10000

3003 PSI

0000

4000

2000

Time in Minutes

Actual Burst Pressure

Time Held at Test Pressure 15 1/4 Minutes

Test Pressure 15000 PSI

Peak Pressure 15410 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Tyler Hill

Approved By;, Ryan Adams



General Inforr	mation	Hose Spec	ifications	
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill	
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2	
Date Assembled	12/23/2014	Hose Grade	MUD	
Location Assembled	ОКС	Hose Working Pressure	10000	
Sales Order #	237566	Hose Lot # and Date Code	11784-10/14	
Customer Purchase Order #	261581	Hose I.D. (Inches)	2"	
Assembly Serial # (Pick Licket #)	286159	Hose O.D. (Inches)	4.00"	
Hose Assembly Length	50'	Armor (yes/no)	YES	
	Fi	ttings		
End A		End	В	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part ant #)	R2.0X32M1502	
Stem (Heat #)	M14104546	Stem (Heat #)	M14101226	
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K	
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044	
Connection . Flange Hammer Uni	2" 1502	Connection Factor		
Connection (Heat #)	2866	Connection (Heat #		
Nut (Part #)		Nut (Part#)		
Nut (Heat #)		Nut (Heat #)		
Dh.: Used	97MM	VI Dies Used		
	Hydrostatic To	est Requirements		
Test Pressure (psi)	15,000	Hose assembly was teste	ed with ambient water	
Test Pressure Hold Time (minutes)	15 1/4	temperature.		



Certificate of Conformity						
Customer:	PATTERSON E	3&E	Customer P.O.# 261581			
Sales Order#	237566		Date Assembled: 12/23/2014			
Specifications						
Hose Asser	mbly Type:	Choke & Kill				
Assembly	y Serial #	286159	Hose Lot # and Date Code	11784-10/14		
Hose Working	Pressure (psi)	10000	Test Pressure (psi)	15000		

We hereby certify that the above material supplied for the referenced purchase order to be true according to the requirements of the purchase order and current industry standards.

Supplier:

Midwest Hose & Specialty, Inc.

3312 S I-35 Service Rd

Oklahoma City, OK 73129

Comments:

Approved By	Date
Fran Alam	12/29/2014



Midwest Hose & Specialty, Inc.

Internal Hydrostatic Test Certificate

		atic rest Certificati		
Gener alin form	nation	Hose Spee		
Customer	PATTERSON B&E	Hose Assembly Type	Choke & Kill	
MWH Sales Representative	AMY WHITE	Certification	API 7K/FSL Level 2	
Date Assembled	3/10/2015	Hose Grade	MUD	
Location Assembled	ОКС	Hose Working Pressure	10000	
Sales Order #	245805	Hose Lot # and Date Code	11839-11/14	
Customer Purchase Order #	270590	Hose I.D. (Inches)	2"	
Assembly Serial # (Pick Ticket #)	296283	Hose O.D. (Inches)	3.99"	
Hose Assembly Length	50'	Armor (yes/no)	YES	
	H. T. Bu	tings		
End A		End	В	
Stem (Part and Revision #)	R2.0X32M1502	Stem (Part and Revision #)	RF2.0 32F1502	
Stem (Heat #)	14104546	Stem (Heat #)	A144853	
Ferrule (Part and Revision #)	RF2.0 10K	Ferrule (Part and Revision #)	RF2.0 10K	
Ferrule (Heat #)	41044	Ferrule (Heat #)	41044	
Connection . Flange Hammer Union Part		Connection (Part#)		
Connection (Heat #)		Connection (Heat #)		
Nut (Part #)	2" 1502 H2S	Nut (Part#)		
Nut (Heat#)		Nut (Heat #)		
Dies Used	97MM	Dies Used	97MM	
	Hydrostatic Te	Regultements		
Test Pressure (ps:)	15,000	Hose assembly was teste	ed with ambient water	
	17 3/4	temperature.		

Surface Casing

Collapse: DF_C=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.43 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.52 psi/ft).

Burst: DF_b=1.125

• Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.43 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (8.3 ppg).

Intermediate #1 Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DFh=1.125

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface
 burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of
 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be
 run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing
 will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface
 burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of
 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be
 run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing
 will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

Intermediate #1 Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface
 burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of
 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be
 run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing
 will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (10.0 ppg).

Intermediate #2 Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.52 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: Casing test per Onshore Oil and Gas Order No. 2 with an external force equal to the mud gradient in which the casing will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Gas Kick Profile: Internal burst force at the shoe will be Fracture Pressure at that depth. Surface
 burst pressure will be fracture gradient at setting depth less a gas gradient to equivalent height of
 50 bbl kick with Drill Pipe inside casing and mud gradient with which the next hole section will be
 run above that (0.47 psi/ft). External force will be equal to the mud gradient in which the casing
 will be run (0.52 psi/ft), which is a more conservative backup force than pore pressure.
- Fracture at Shoe with 1/3 BHP at Surface: Internal burst force at the shoe will be Fracture Pressure at setting depth. Internal burst force at surface will be 1/3 of pore pressure at setting depth. External force will be equal to the mud gradient in which the casing will be run (0.52 psi/ft) which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

Production Casing

Collapse: DF_c=1.125

- Full Internal Evacuation: Collapse force equal to the mud gradient in which the casing will be run (0.47 psi/ft). The effects of axial load on collapse will be considered.
- Cementing: Collapse force equal to the gradient of planned cement slurries to planned depths and mud gradient in which the casing will be run above that (0.47 psi/ft) and an internal force equal to mud gradient of displacement fluid (0.43 psi/ft).

Burst: DF_b=1.125

- Pressure Test: 8000 psi casing test with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.
- Injection Down Casing: 9500 psi surface injection pressure plus an internal pressure gradient of 0.65 psi/ft with an external force equal to the mud gradient in which the casing will be run (0.47 psi/ft), which is a more conservative backup force than pore pressure.

Tensile: DF_t=1.8

• Overpull: A downward force of 100,000 lbs is applied at the shoe along with the weight of the casing string utilizing the effects of buoyancy (9.0 ppg).



Hydrogen Sulfide Drilling

Operations Plan

Matador Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system, and briefing areas
- · Evacuation procedures, routes, and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
- An audio alarm system will be installed on the derrick floor and in the doghouse.

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible.
- Windsock on the rig floor and / top of doghouse should be high enough to be visible.

4 Condition Flags and Signs:

- · Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - o Green Flag Normal Safe Operation Condition
 - Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

See APD

6 Communications:

- While working under masks, chalkboards will be used for communications.
- Hand signals will be used where chalkboard is inappropriate.
- Two-way radio will be used to communicate off location in case emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drilling Stem Testing:

No DSTs or cores are planned at this time

8 Drilling contractor supervisor will be familiar with the effects H2S has on tubulars good and other mechanical equipment.

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary.

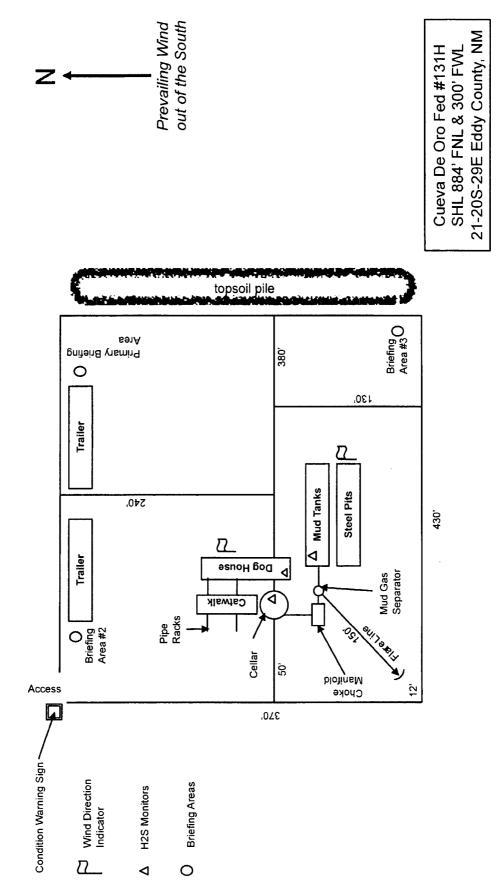
11 Emergency Contacts

See next page

H2S Contingency Plan Emergency Contacts Matador Production Company Cueva de Oro Fed wells

Sec. 21, T20S, R29E, Eddy County, NM

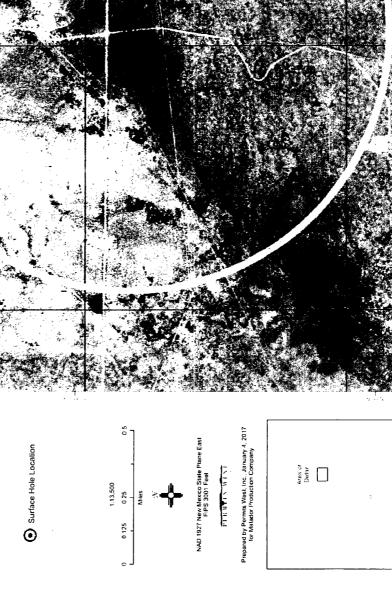
Company Office			
Matador Production Company	(972)-371-5200		
Key Personnel			
Name	Title	Office	Mobile
Billy Goodwin	Vice President Drilling	972-371-5210	817-522-2928
Gary Martin	Drilling Superintendent		601-669-1774
Dee Smith	Drilling Superintendent	972-371-5447	972-822-1010
Aaron Byrd	Drilling Engineer	972-371-5267	214-507-2333
Larry Seegers	Construction Superintendent		318-840-4364
Jimmy Benefield	Construction Superintendent		318-548-6659
<u>Artesia</u>			
Ambulance		911	
State Police		575-746-2703	
City Police		575-746-2703	
Sheriff's Office		575-746-9888	
Fire Department		575-746-2701	
Local Emergency Planning Committ	575-746-2122		
New Mexico Oil Conservation Divisi	on	575-748-1283	
<u>Carlsbad</u>			
Ambulance		911	
State Police	575-885-3137		
City Police	575-885-2111		
Sheriff's Office	575-887-7551		
Fire Department	575-887-3798		
Local Emergency Planning Committ	ee	575-885-3581	
Santa Fe			
New Mexico Emergency Response (Commission (Santa Fe)	505-476-9600	
New Mexico Emergency Response (Commission (Santa Fe) 24 hrs	505-827-9126	
New Mexico State Emergency Oper	ations Center	505-476-9635	
<u>National</u>			
Carlsbad BLM		575-234-5972	
National Emergency Response Cent	er (Washington, D.C.)	800-424-8802	
<u>Medical</u>			
Flight for Life- 4000 24th St.; Lubbo	ck, TX	806-743-9911	
Aerocare- R3, Box 49F; Lubbock, TX		806-747-8923	
Med Flight Air Ambulance- 2301 Ya	le Blvd S.E., D3; Albuquerque, NM	505-842-4433	
SB Air Med Service- 2505 Clark Carr	Loop S.E.; Albuquerque, NM	505-842-4949	
<u>Other</u>			
Boots & Coots IWC		800-256-9688	or 281-931-888
Cudd Pressure Control		432-699-0139	or 432-563-3356
Haliburton		575-746-2757	
B.J. Services		575-746-3569	



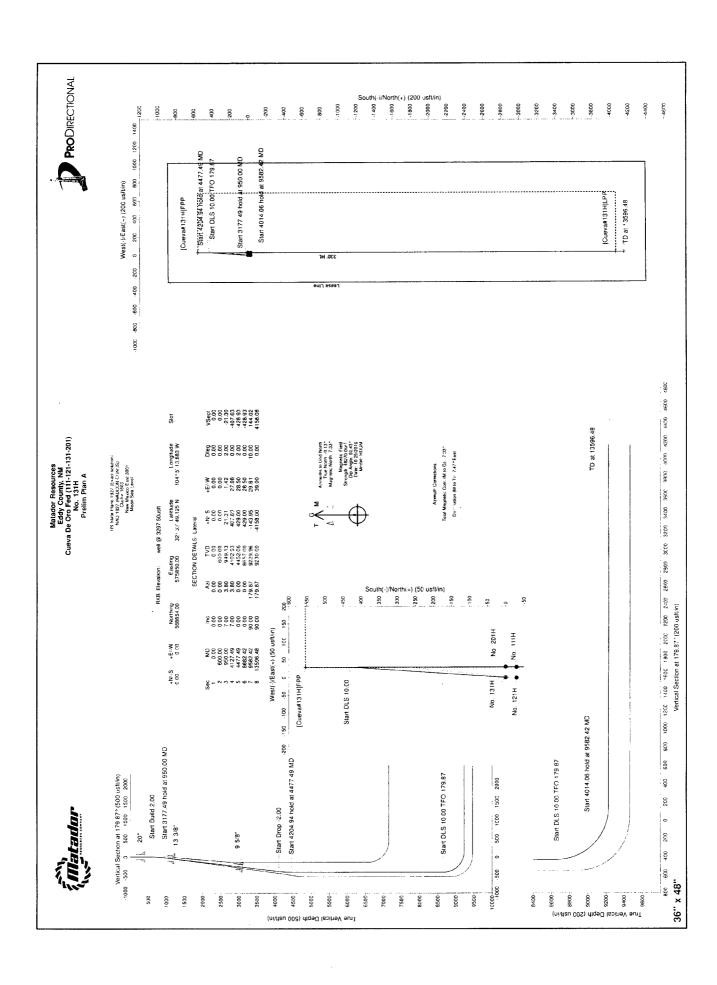


Matador Production Company

Cueva De Oro Fed #131H H₂S Contingency Plan: 1 Mile Radius Map Section 21, Township 20S, Range 29E Eddy County, New Mexico



Matador Production Company Section 21, Township 20S, Range 29E Eddy County, New Mexico Prepared by Permits West, Inc., January 4, 2017 for Malador Production Company Surface Hole Location Cueva De Oro Fed #131H H₂S Contingency Plan: 2 Mite Radius Map





Survey Report



Company:

Matador Resources

Project:

Eddy County, NM

Site:

Cueva De Oro Fed (111-121-131-201)

Well: Wellbore: No. 131H

Design:

ОН

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

well @ 3297.50usft

Well No. 131H

well @ 3297.50usft

Grid

Survey Calculation Method:

Minimum Curvature

Database:

WellPlanner1

Project

Eddy County, NM

Map System: Geo Datum: Map Zone:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Site

From:

Cueva De Oro Fed (111-121-131-201)

0.00 usft

Site Position:

Мар

Northing: Easting:

569,408.00 usft 575,878.00 usft Latitude: Longitude:

32° 33' 54.606 N

Position Uncertainty:

Slot Radius:

13-3/16 "

Grid Convergence:

104° 5' 13.341 W

0.13 °

Well

No. 131H

Well Position

+N/-S +E/-W 0.00 usft 0.00 usft

Northing:

568,854.00 usft 575,850.00 usft Latitude:

32° 33' 49.125 N

0.00 usft

Easting:

Longitude:

104° 5' 13.683 W

Position Uncertainty

Wellhead Elevation:

Ground Level: usft

3,269.00 usft

Wellbore

ОН

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle

Field Strength

(nT)

HDGM

10/25/2016

0.00

7.47

60.43

48,270.00

Design

Prelim Plan A

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.00

0.00

Vertical Section:

Depth From (TVD) (usft)

+N/-S

(usft)

0.00

+E/-W (usft) Direction (°)

179.87

Survey Tool Program

Date 10/26/2016

From (usft)	To (usft)	Survey (Wellbore)
0.00	400.00	Prelim Plan A (OH)
400.00	1,220.00	Prelim Plan A (OH)
1,220.00	3,100.00	Prelim Plan A (OH)
3,100.00	13,596.48	Prelim Plan A (OH)

Tool Name

Description MWD - OWSG

MWD - OWSG MWD - OWSG MWD - OWSG

MWD - OWSG

MWD - OWSG MWD - OWSG MWD - OWSG

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[Cueva#1311	1]LPP								
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
20"									



Survey Report



Company:

Matador Resources Eddy County, NM

Project: Site:

Cueva De Oro Fed (111-121-131-201)

Well:

No. 131H ОН

Wellbore:

Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

WellPlanner1

Measured Depth	Inclination	Azimuth	Vertical Depth (usft)	+N/-S	+E/-W	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
(usft)	(°)	(°)	, ,	(usft)	(usft)	•	•	,	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	2.00	3.80	699.98	1.74	0.12	-1.74	2.00	2.00	0.00
800.00	4.00	3.80	799.84	6.96	0.46	-6.96	2.00	2.00	0.00
900.00	6.00	3.80	899.45	15.66	1.04	-15.66	2.00	2.00	0.00
950.00	7.00	3.80	949.13	21.31	1.42	-21.30	2.00	2.00	0.00
1,000.00	7.00	3.80	998.76	27.39	1.82	-27.38	0.00	0.00	0.00
1,100.00	7.00	3.80	1,098.01	39.55	2.63	-39.54	0.00	0.00	0.00
1,200.00	7.00	3.80	1,197.27	51.71	3.44	-51.70	0.00	0.00	0.00
1,222.90	7.00	3.80	1,220.00	54.49	3.62	-54.48	0.00	0.00	0.00
13 3/8"									
1,300.00	7.00	3.80	1,296.52	63.87	4.24	-63.86	0.00	0.00	0.00
1,400.00	7.00	3.80	1,395.78	76.03	5.05	-76.02	0.00	0.00	0.00
1,500.00	7.00	3.80	1,495.03	88.19	5.86	-88.17	0.00	0.00	0.00
1,600.00	7.00	3.80	1,594.28	100.35	6.67	-100.33	0.00	0.00	0.00
1,700.00	7.00	3.80	1,693.54	112.51	7.47	-112.49	0.00	0.00	0.00
1,800.00	7.00	3.80	1,792.79	124.67	8.28	-124.65	0.00	0.00	0.00
1,900.00	7.00	3.80	1,892.05	136.83	9.09	-136.81	0.00	0.00	0.00
2,000.00	7.00	3.80	1.991.30	148.99	9.90	-148.97	0.00	0.00	0.00
2,100.00	7.00	3.80	2,090.56	161.15	10.71	-161.12	0.00	0.00	0.00
2,200.00	7.00	3.80	2,189.81	173.31	11.51	-173.28	0.00	0.00	0.00
2,300.00	7.00	3.80	2,289.07	185.47	12.32	-185.44	0.00	0.00	0.00
2,400.00	7.00	3.80	2,388.32	197.63	13.13	-197.60	0.00	0.00	0.00
2,500.00	7.00	3.80	2,487.58	209.79	13.94	-209.76	0.00	0.00	0.00
2,600.00	7.00	3.80	2,586.83	221.95	14.74	-221.91	0.00	0.00	0.00
2,700.00	7.00	3.80	2,686.09	234.11	15.55	-234.07	0.00	0.00	0.00
2,800.00	7.00	3.80	2,785.34	246.27	16.36	-246.23	0.00	0.00	0.00
2,900.00	7.00	3.80	2,884.60	258.43	17.17	-258.39	0.00	0.00	0.00
3,000.00	7.00	3.80	2,983.85	270.59	17.98	-270.55	0.00	0.00	0.00
3,100.00	7.00	3.80	3,083.10	282.75	18.78	-282.71	0.00	0.00	0.00
3,117.02	7.00	3.80	3,100.00	284.82	18.92	-284.78	0.00	0.00	0.00
9 5/8"									
3,200.00	7.00	3.80	3,182.36	294.91	19.59	-294.86	0.00	0.00	0.00
3,300.00	7.00	3.80	3,281.61	307.07	20.40	-307.02	0.00	0.00	0.00
3,400.00	7.00	3.80	3,380.87	319.23	21.21	-319.18	0.00	0.00	0.00
3,500.00	7.00	3.80	3,480.12	331.39	22.02	-331.34	0.00	0.00	0.00
3,600.00	7.00	3.80	3,579.38	343.55	22.82	-343.50	0.00	0.00	0.00
3,700.00	7.00	3.80	3.678.63	355.71	23.63	-355.66	0.00	0.00	0.00
3,800.00	7.00	3.80	3.777.89	367.87	24.44	-367.81	0.00	0.00	0.00
3,900.00	7.00	3.80	3,877.14	380.03	25.25	-379.97	0.00	0.00	0.00
4,000.00	7.00	3.80	3,976.40	392.19	26.05	-392.13	0.00	0.00	0.00
4.100.00	7.00	3.80	4,075.65	404.35	26.86	-404.29	0.00	0.00	0.00
4,127.49	7.00	3.80	4,102.93	407.69	27.08	-407.63	0.00	0.00	0.00
4,200.00	5.55	3.80	4,175.01	415.60	27.61	-415.54	2.00	-2.00	0.00



Survey Report



Company:

Matador Resources

Project:

Eddy County, NM

Site:

Cueva De Oro Fed (111-121-131-201)

Well: Wellbore: No. 131H

Wellbore: Design: OH Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

WellPlanner1

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Tum Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
4,300.00	3.55	3.80	4,274.69	423.52	28.14	-423.45	2.00	-2.00	0.00
4,400.00	1.55	3.80	4,374.58	427.95	28.43	-427.89	2.00	-2.00	0.00
4,477.49	0.00	0.00	4,452.06	429.00	28.50	-428.93	2.00	-2.00	0.00
4,500.00	0.00	0.00	4,474.58	429.00	28.50	-428.93	0.00	0.00	0.00
4,600.00	0.00	0.00	4,574.58	429.00	28.50	-428.93	0.00	0.00	0.00
4,700.00	0.00	0.00	4,674.58	429.00	28.50	-428.93	0.00	0.00	0.00
4,800.00	0.00	0.00	4,774.58	429.00	28.50	-428.93	0.00	0.00	0.00
4,900.00	0.00	0.00	4,874.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,000.00	0.00	0.00	4,974.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,100.00	0.00	0.00	5,074.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,200.00	0.00	0.00	5,174.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,300.00	0.00	0.00	5,274.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,400.00	0.00	0.00	5,374.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,500.00	0.00	0.00	5,474.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,600.00	0.00	0.00	5,574.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,700.00	0.00	0.00	5,674.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,800.00	0.00	0.00	5,774.58	429.00	28.50	-428.93	0.00	0.00	0.00
5,900.00	0.00	0.00	5,874.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,000.00	0.00	0.00	5,974.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,100.00	0.00	0.00	6,074.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,200.00	0.00	0.00	6,174.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,300.00	0.00	0.00	6,274.58	. 429.00	28.50	-428.93	0.00	0.00	0.00
6,400.00	0.00	0.00	6,374.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,500.00	0.00	0.00	6,474.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,600.00	0.00	0.00	6,574.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,700.00	0.00	0.00	6,674.58	429.00	28.50	-428.93	0.00	0.00	0.00
6,800.00	0.00	0.00	6,774.58	429.00	28.50	-428.93	0.00	0.00	0.00
6.900.00	0.00	0.00	6,874.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,000.00	0.00	0.00	6,974.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,100.00	0.00	0.00	7,074.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,200.00	0.00	0.00	7,174.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,300.00	0.00	0.00	7,274.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,400.00	0.00	0.00	7,374.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,500.00	0.00	0.00	7,474.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,600.00	0.00	0.00	7,574.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,700.00	0.00	0.00	7,674.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,800.00	0.00	0.00	7,774.58	429.00	28.50	-428.93	0.00	0.00	0.00
7,900.00	0.00	0.00	7,874.58	429.00	28.50	-428.93	0.00	0.00	0.00
8,000.00	0.00	0.00	7,974.58	429.00	28.50	-428.93	0.00	0.00	0.00
8,100.00	0.00	0.00	8,074.58	429.00	28.50	-428.93	0.00	0.00	0.00
8,200.00	0.00	0.00	8,174.58	429.00	28.50	-428.93	0.00	0.00	0.00
8,300.00	0.00	0.00	8,274.58	429.00	28.50	-428.93	0.00	0.00	0.00
8,400.00	0.00	0.00	8,374.58	429.00	28.50	-428.93	0.00	0.00	0.00



Survey Report



Company:

Matador Resources

Project: Site: Eddy County, NM Cueva De Oro Fed (111-121-131-201)

Well:

No. 131H

ОН

Wellbore: Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Database:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

WellPlanner1

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
8,500.00	0.00	0.00	8,474.58	429.00	28.50	-428.93	0.00	0.00	0.00
8,600.00	0.00	0.00	8,574.58	429.00	28.50	-428.93	0.00	0.00	0.00
8,682.42	0.00	0.00	8,657.00	429.00	28.50	-428.93	0.00	0.00	0.00
8,700.00	1.76	179.87	8,674.57	428.73	28.50	-428.66	10.00	10.00	0.00
8.750.00	6.76	179.87	8,724.42	425.02	28.51	-424.95	10.00	10.00	0.00
8,800.00	11.76	179.87	8,773.75	416.98	28.53	-416.91	10.00	10.00	0.00
8,850.00	16.76	179.87	8,822.20	404.67	28.56	-404.60	10.00	10.00	0.00
8,862.87	18.04	179.87	8,834.48	400.82	28.56	-400.75	10.00	10.00	0.00
[Cueva#131]									
8,900.00	21.76	179.87	8.869.38	388.18	28.59	-388.12	10.00	10.00	0.00
8,950.00	26.76	179.87	8,914.95	367.65	28.64	-367.58	10.00	10.00	0.00
9,000.00	31.76	179.87	8,958.56	343.22	28.70	-343.15	10.00	10.00	0.00
9,050.00	36.76	179.87	8,999.88	315.08	28.76	-315.02	10.00	10.00	0.00
9,100.00	41.76	179.87	9,038.58	283.45	28.83	-283.39	10.00	10.00	0.00
9,150.00	46.76	179.87	9,074.38	248.57	28.91	-248.50	10.00	10.00	0.00
9,200.00	51.76	179.87	9,107.00	210.70	29.00	-210.63	10.00	10.00	0.00
5,200.00	31.70		9,107.00	210.70	25.00	-210.03	10.00	10.00	0.00
9,250.00	56.76	179.87	9,136.20	170.13	29.09	-170.06	10.00	10.00	0.00
9,300.00	61.76	179.87	9,161.75	127.17	29.19	-127.10	10.00	10.00	0.00
9,350.00	66.76	179.87	9,183.46	82.15	29.29	-82.08	10.00	10.00	0.00
9,400.00	71.76	179.87	9,201.16	35.40	29.40	-35.33	10.00	10.00	0.00
9,450.00	76.76	179.87	9,214.72	-12.71	29.51	12.77	10.00	10.00	0.00
9,500.00	81.76	179.87	9,224.04	-61.82	29.62	61.88	10.00	10.00	0.00
9,550.00	86.76	179.87	9,229.04	-111.55	29.74	111.62	10.00	10.00	0.00
9,582.42	90.00	179.87	9,229.96	-143.95	29.81	144.02	10.00	10.00	0.00
9,600.00	90.00	179.87	9,229.96	-161.53	29.85	161.60	0.00	0.00	0.00
9,700.00	90.00	179.87	9,229.96	-261.53	30.08	261.60	0.00	0.00	0.00
9,800.00	90.00	179.87	9,229.96	-361.53	30.31	361.60	0.00	0.00	0.00
9,900.00	90.00	179.87	9,229.96	-461.53	30.54	461.60	0.00	0.00	0.00
10,000.00	90.00	179.87	9,229.96	-561.53	30.77	561.60	0.00	0.00	0.00
10,100.00	90.00	179.87	9,229.96	-661.53	31.00	661.60	0.00	0.00	0.00
10,200.00	90.00	179.87	9,229.96	-7 6 1.53	31.23	761.60	0.00	0.00	0.00
10,300.00	90.00	179.87	9,229.97	-861.53	31.45	861.60	0.00	0.00	0.00
10,400.00	90.00	179.87	9,229.97	-961.53	31.68	961.60	0.00	0.00	0.00
10,500.00	90.00	179.87	9,229.97	-1,061.53	31.91	1,061.60	0.00	0.00	0.00
10,600.00	90.00	179.87	9,229.97	-1,161.53	32.14	1,161.60	0.00	0.00	0.00
10,700.00	90.00	179.87	9,229.97	-1,261.53	32.37	1,261.60	0.00	0.00	0.00
10,800.00	90.00	179.87	9,229.97	-1,361.53	32.60	1,361.60	0.00	0.00	0.00
10,900.00	90.00	179.87	9,229.97	-1,461.53	32.83	1,461.60	0.00	0.00	0.00
11,000.00	90.00	179.87	9,229.97	-1,561.53	33.06	1,561.60	0.00	0.00	0.00
11,100.00	90.00	179.87	9,229.97	-1,661.53	33.29	1,661.60	0.00	0.00	0.00
11,100.00	90.00	179.87	9,229.97	-1,761.53	33.29	1,761.60	0.00	0.00	0.00
11,200.00	90.00	175.07	3,223.90	-1,707,00	33.31	1,701.00	0.00	0.00	0.00
11,300.00	90.00	179.87	9,229.98	-1,861.53	33.74	1.861.60	0.00	0.00	0.00
11,400.00	90.00	179.87	9,229.98	-1,961.53	33.97	1,961.60	0.00	0.00	0.00
11,500.00	90.00	179.87	9,229.98	-2,061.53	34.20	2,061.60	0.00	0.00	0.00



Survey Report



Company:

Matador Resources

Project:

Eddy County, NM

Site:

Cueva De Oro Fed (111-121-131-201)

Well: Wellbore: No. 131H

Design:

ОΗ Prelim Plan A Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference:

Well No. 131H well @ 3297.50usft

well @ 3297.50usft

North Reference:

Grid

Minimum Curvature

Database:

WellPlanner1

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)
11,600.00	90.00	179.87	9,229.98	-2,161.53	34.43	2,161.60	0.00	0.00	0.00
11,700.00	90.00	179.87	9,229.98	-2.261.53	34.66	2,261.60	0.00	0.00	0.00
11,800.00	90.00	179.87	9,229.98	-2.361.53	34.89	2,361.60	0.00	0.00	0.00
11,900.00	90.00	179.87	9,229.98	-2,461.53	35.12	2,461.60	0.00	0.00	0.00
12,000.00	90.00	179.87	9,229.98	-2,561.53	35.35	2,561.60	0.00	0.00	0.00
12,100.00	90.00	179.87	9,229.98	-2,661.53	35.57	2,661.60	0.00	0.00	0.00
12,200.00	90.00	179.87	9,229.99	-2,761.52	35.80	2,761.60	0.00	0.00	0.00
12,300.00	90.00	179.87	9,229.99	-2,861.52	36.03	2,861.60	0.00	0.00	0.00
12,400.00	90.00	179.87	9,229.99	-2,961.52	36.26	2,961.60	0.00	0.00	0.00
12,500.00	90.00	179.87	9,229.99	-3,061.52	36.49	3,061.60	0.00	0.00	0.00
12,600.00	90.00	179.87	9,229.99	-3,161.52	36.72	3,161.60	0.00	0.00	0.00
12,700.00	90.00	179.87	9,229.99	-3,261.52	36.95	3,261.60	0.00	0.00	0.00
12,800.00	90.00	179.87	9,229.99	-3,361.52	37.18	3,361.60	0.00	0.00	0.00
12,900.00	90.00	179.87	9,229.99	-3,461.52	37.41	3,461.60	0.00	0.00	0.00
13,000.00	90.00	179.87	9,229.99	-3,561.52	37.63	3,561.60	0.00	0.00	0.00
13,100.00	90.00	179.87	9,229.99	-3,661.52	37.86	3,661.60	0.00	0.00	0.00
13,200.00	90.00	179.87	9,230.00	-3,761.52	38.09	3,761.60	0.00	0.00	0.00
13,300.00	90.00	179.87	9,230.00	-3,861.52	38.32	3,861.60	0.00	0.00	0.00
13,400.00	90.00	179.87	9,230.00	-3,961.52	38.55	3,961.60	0.00	0.00	0.00
13,500.00	90.00	179.87	9,230.00	-4,061.52	38.78	4,061.60	0.00	0.00	0.00
13,596.48	90.00	179.87	9,230.00	-4,158.00	39.00	4,158.08	0.00	0.00	0.00
[Cueva#131I	н ј внц								

Design Targets

Target	Name
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 hit/miss target 	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
(Cueva#131H)LPP	0.00	0.00	0.00	-4,068.00	39.00	564.786.00	575,889.00	32° 33' 8.868 N	104° 5' 13.337 W
 plan misses target 	t center by 4068	3.19usft at 0	.00usft MD (0.00 TVD, 0.0	10 N, 0.00 E)				
- Point									
[Cueva#131H]FPP	0.00	0.00	8,888.00	554.00	28.00	569,408.00	575,878.00	32° 33' 54.606 N	104° 5′ 13.341 W
- plan misses target	t center by 162.	26usft at 88	62.87usft MI	0 (8834.48 TV	/D, 400.82 N. 2	28.56 E)			
- Point									
[Cueva#131H]BHL - plan hits target ce	0.00 nter	0.00	9,230.00	-4,158.00	39.00	564,696.00	575,889.00	32° 33′ 7.977 N	104° 5′ 13.339 W

⁻ Point

Casing Points

Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(usft)	(usft)		Name	(")	(")
400.00	400.00	20"		20	26
1,222.90	1.220.00	13 3/8"		13-3/8	17-1/2
3,117.02	3.100.00	9 5/8"		9-5/8	12-1/4



Survey Report



Company:

Matador Resources Eddy County, NM

Project: Site:

Cueva De Oro Fed (111-121-131-201)

Well: Wellbore: No. 131H

Prelim Plan A

Design:

OH

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Database:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

WellPlanner1

1		5 .
Checked By:	Approved By:	Date:



Anticollision Report



Company: Project:

Well Error:

Matador Resources

Eddy County, NM

Reference Site:

Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Weil: 0.00 usft No. 131H 0.00 usft

Reference Wellbore Reference Design:

OH Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database: Offset TVD Reference: Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Reference

Prelim Plan A

Filter type:

NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Depth Range:

MD Interval 100.00usft

Unlimited

Maximum center-center distance of 20,000.00 usft

2.00 Sigma

Error Model: **ISCWSA** Closest Approach 3D

Scan Method: Error Surface:

Pedal Curve

Warning Levels Evaluated at:

Casing Method:

Not applied

Survey Tool Program

Results Limited by:

10/25/2016

To (usft) (usft) 0.00

400.00

Survey (Wellbore)

400.00 Prelim Plan A (OH) 1,220.00 Prelim Plan A (OH)

1,220.00 3,100.00 Prelim Plan A (OH) 3,100.00 13,596.48 Prelim Plan A (OH) **Tool Name**

MWD - OWSG MWD - OWSG

MWD - OWSG MWD - OWSG Description MWD - OWSG

MWD - OWSG MWD - OWSG MWD - OWSG

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Cueva De Oro Fed (111-121-131-201)						
No. 111H - OH - Prelim Plan A	866.57	869.18	41.11	37.03	10.058	CC
No. 111H - OH - Prelim Plan A	900.00	902.60	41.25	36.98	9.669 [S
No. 111H - OH - Prelim Plan A	2,700.00	2,699.99	93.62	81.17	7.521	SF
No. 121H - OH - Prelim Plan A	906.90	910.13	29.87	25.58	6.959	CC, ES
No. 121H - OH - Prelim Plan A	3,100.00	3,102.79	68.50	53.43	4.546	SF
No. 201H - OH - Prelim Plan A	1,599.10	1,601.02	25.49	18.09	3.446	CC
No. 201H - OH - Prelim Plan A	1,900.00	1,900.17	26.17	17.58	3.046	ES
No. 201H - OH - Prelim Plan A	3,100.00	3,100.41	39.02	23.77	2.558	SF

Offset De	sign	Cueva (De Oro Fe	d (111-121-	131-201)	- No 111H	- OH - Prelim	Plan A					Offset Site Error:	0 00 usft
Survey Prog	ram: 0-M	WD - OWSG. 4	00-MWD - 0	WSG. 1220-MV	VD - OWSG	3100-MWD - O	WSG						Offset Well Error:	0.00 usft
Refer	ence	Offse	et .	Semi Major	Axis				Dista	ince				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor		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		
0.00	0.00	0.00	0.00	0.00	0.00	135 97	-30 00	29 00	41.73					
100.00	100.00	100.00	100.00	0.13	0 13	135.97	-30.00	29 00	41.73	41 47	0.26	162.794		
200.00	200.00	200 00	200 00	0 49	0.49	135.97	-30.00	29 00	41.73	40.75	0 97	42 872		
300 00	300.00	300 00	300 00	0.85	0 85	135.97	-30.00	29.00	41.73	40.04	1.69	24 687		
400.00	400 00	400 00	400 00	1.20	1 20	135.97	-30.00	29.00	41.73	39.32	2.41	17.334		
500 00	500.00	500 00	500 00	1.39	1.39	135.97	-30.00	29.00	41 73	38 94	2 79	14 962		
600 00	600.00	600 00	600 00	1 48	1 48	135.97	-30 00	29.00	41.73	38 76	2 97	14 062		
700 00	699 98	701.06	701 03	1 65	1 65	132.26	-28.22	29 00	41 63	38.33	3.30	12.626		
800 00	799 84	802 11	801 94	1 87	1 88	132.54	-22.87	29 02	41.35	37 61	3 74	11 055		
866 57	866 19	869.18	868.79	2.05	2 05	132.88	-17 43	29 04	41 11	37.03	4 09	10 058 CC		
900.00	899 45	902.60	902.08	2 14	2 14	133.46	-14.51	29 04	41 25	36 98	4 27	9 669 ES		
1,000 00	998 76	1,002.55	1,001.65	2 44	2 44	136.92	-5 80	29.07	43 04	38 19	4 85	8 872		
1,100 00	1 098 01	1,102 49	1,101.21	2 77	2 76	140 46	291	29 09	45 31	39.84	5 47	8.279		
1,200 00	1 197.27	1,202.43	1,200.77	3.11	3 08	143 66	11 62	29 12	47 74	41.62	6.12	7.804		
1,300.00	1,296.52	1,302.36	1,300.32	3 32	3 27	146 53	20 33	29 14	50 30	43.84	6 46	7 782		
1,400.00	1,395.78	1,402.30	1,399.88	341	3 34	149 12	29 04	29 16	52.98	46 42	6.56	8.075		



Anticollision Report



Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error: Cueva De Oro Fed (111-121-131-201) 0.00 usft

Reference Well:

No. 131H

Well Error: Reference Wellbore 0.00 usft OH

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1

Offset Datum

Offset De	_				,	i - No. 111H i 3100-MWD - C	- OH - Prelim	Plan A					Offset Site Error:	0.00 05
urvey Prog Refer		YVD - OWSG. 4 Offs		Semi Major		- C1444401-C	30		Dist	псе			Offset Well Error:	0 00 us
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tootface (*)	Offset Wellbor +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
1.500.00	1,495.03	1,502.24	1,499,44	3 55	3.45	151.46	37 75	29 19	55.75	49.02	6.73	8.280		
1,600.00	1,594.28	1,602.17	1,598.99	3 73	3.60	153.58	46.46	29.21	58.61	51.63	6.98	8.399		
1,700.00	1,693.54	1,702.11	1,698.55	3.93	3.78	155.49	55.17	29 24	61.54	54 25	7.29	8.446		
1.800.00	1,792.79	1,802 05	1,798 11	4 17	3.99	157.23	63.88	29 26	64 53	56.88	7 65	8 435		
1,900 00	1,892.05	1,901.98	1,897 66	4 43	4 22	158.81	72.59	29 29	67 57	59.51	8.06	8.380		
2,000 00	1,991.30	2,001.92	1,997 22	4 72	4 48	160.26	81 30	29.31	70 67	62.15	8.52	8.296		
2,100 00	2,090.56	2,101.86	2,096 78	5.01	4 75	161.58	90.01	29 34	73 80	64.79	9 01	8.192		
2,200 00	2,189.81	2,201.80	2,196 33	5 33	5 03	162.80	98 72	29.36	76 97	67 44	9.53	8.076		
2,300.00	2,289.07	2,301 73	2,295 89	5.65	5 33	163.92	107.43	29.38	80.18	70.10	10.08	7.956		
2,400.00	2,388 32	2,401.67	2,395 45	5.98	5.64	164.95	116 14	29 4 1	83 41	72 76	10.65	7.834		
2,500.00	2,487.58	2,501.61	2,495.00	6 32	5 95	165 91	124 85	29 43	86.66	75 43	11 23	7 715		
2,600 00	2,586.83	2,601 54	2,594.56	6.67	6 28	166 79	133 56	29.46	89.94	78 10	11.84	7.599		
2.700 00	2,686 09	2,699.99	2.692 66	7 03	6 60	167.64	141 76	29 48	93.62	81.17	12.45	7.521 SF		
2,800.00	2,785.34	2,796 53	2,789.05	7 39	6 90	168 63	147 00	29.49	100.21	87 15	13.05	7 678		
2,900.00 3,000.00	2,884.60 2,983.85	2,892.52 3,008 65	2,885 02 2,983.85	7 75 8 12	7 19 7 53	169 70 170 72	148 98 149 00	29.50 29.50	110.14 122 13	96.50 107.81	13.85 14.33	6 072 8 526		
3,100.00	3,083 10	3,109 40	3 083.10	8 49	7 82	171.56	149 00	29 50	134 18	119 22	14.95	8 972		
3,200.00	3,182.36	3,189 86	3,182.36	8 72	7 94	172.26	149 00	29.50	146.25	130.99	15.25	9 589		
3,300.00	3,782.50	3,289 11	3.281.61	8 82	7 97	172 85	149.00	29.50	158 33	143 03	15 30	10 349		
3,400.00	3,380 87	3,388.37	3,380.87	8 94	8.00	173 36	149 00	29 50	170 43	155 07	15 37	11 092		
3,500.00	3,480 12	3,487.62	3,480.12	9 08	8.05	173 80	149.00	29.50	182 54	167 08	15 47	11 804		
3.600 00	3,579.38	3,586.88	3,579 38	9 23	8.11	174 19	149.00	29 50	194.66	179 07	15.60	12 480		
3,700.00	3,678 63	3,686.13	3,678.63	9 40	8.19	174 53	149.00	29 50	206 79	191 03	15 76	13.119		
3,800.00	3,777 89	3,785.38	3,777 89	9.58	8.28	174.84	149.00	29.50	218 93	202 97	15 96	13 718		
3,900 00	3,877 14	3,884.64	3,877 14	9 78	8.38	175 11	149 00	29 50	231 07	214.88	16.19	14.277		
4,000.00	3.976 40	3.983.89	3,976 40	9.98	8.50	175 35	149.00	29 50	243 22	226 78	16 44	14 794		
4,100 00	4 075 65	4,083 15	4.075 65	10.20	8 63	175 57	149.00	29 50	255 36	238 64	16 72	15.271		
4,200 00	4.175.01	4,182 51	4,175.01	10.43	8.78	175.77	149 00	29 50	266 61	249 58	17.03	15.656		
4,300 00	4 274.69	4,282 19	4,274 69	10 63	8.93	175.91	149 00	29.50	274 52	257 16	17 36	15.815		
4,400 00	4,374.58	4,382 08	4,374.58	10 81	9 10	175.98	149.00	29.50	278 96	261.25	17 71	15.753		
4,500 00	4,474 58	4,482 07	4,474.58	10.97	9.28	179 80	149 00	29.50	280 00	261 92	18 08	15 489		
4,600 00	4,574 58	4,582 07	4.574.58	11 13	9.47	179 80	149.00	29.50	280 00	261 53	18 47	15 162		
4,700 00	4,674.58	4,682.07	4,674.58	11 30	9 6 7	179 80	149.00	29.50	280.00	261 13	18 88	14.835		
4,800.00	4,774 58	4 782 07	4,774.58	11 48	988	179.80	149 00	29.50	280 00	260 70	19 30	14.507		
4,900.00	4,874 58	4,882 07	4,874.58	11 66	10.09	179.80	149.00	29.50	280 00	260.26	19 74	14 181		
5 000 00	4,974.58	4.982 07	4,974.58	11 86	10 32	179.80	149 00	29 50	280.00	259.80	20 20	13 859		
5 100.00	5,074.58	5,082 07	5,074.58	12 06	10 55	179.80	149 00	29 50	280 00	259 33	20 68	13.542		
5,200 00	5,174 58	5,182.07	5,174 58	12 27	10.79	179 80	149.00	29.50	280.00	258.84	21 16	13.230		
5 300 00	5,274 58	5,282 07	5,274 58	12 49	11 03	179 80	149 00	29 50	280 00	258 34	21 66	12.925		
5.400 00	5,374.58	5,382.07	5.374 58	12.71	11.29	179 80	149.00	29 50	280 00	257 83	22.18	12.627		
5,500 00	5,474.58	5,482.07	5,474 58	12 94	11.54	179 80	149 00	29 50	280 00	257 30	22 70	12 336		
5,600 00	5,574 58	5,582.07	5,574 58	13 17	11 80	179.80	149 00	29 50	280 00	256.77	23 23	12 052		
5,700 00	5,674.58	5,682.07	5,674 58	13 41	12 07	179 80	149.00	29.50	280.00	256.23	23.77	11 777		
5,800 00	5.774.58	5,782 07	5,774.58	13 65	12 34	179 80	149.00	29 50	280 00	255 67	24 33	11.510		
5,900.00	5,874 58	5,882 07	5.874 58	13.90	12.62	179.80	149.00	29 50	280 00	255 11	24.89	11.251		
6,000 00	5,974 58	5,982 07	5,974 58	14.16	12 90	179 80	149 00	29 50	280 00	254 55	25 46	11 000		
6,100.00	6,074.58	6,082 07	6.074.58	14 42	13 18	179 80	149.00	29 50	280 00	253.97	26 03	10 756		
6,200.00	6,174 58	6,182.07	6,174 58	14 68	13 47	179 80	149 00	29 50	280 00	253.39	26 61	10.521		
6,300 00	6,274 58	6,282 07	6,274.58	14.95	13 76	179 80	149 00	29 50	280 00	252.80	27 20	10 293		
6,400 00	6,374.58	6,382 07	6,374.58	15 22	14 06	179 80	149.00	29 50	280 00	252 20	27 80	10 073		
6,500.00	6,474.58	6,482 07	6,474 58	15 49	14 35	179 80	149 00	29 50	280.00	251.60	28 40	9.860		
		6,582.07		15 77										



Anticollision Report



Company:

Matador Resources Eddy County, NM

Project: Reference Site:

Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Well: 0.00 usft

Well Error: Reference Wellbore No. 131H 0.00 usft OH

Reference Design: Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Offset De					,		- OH - Prelim	Plan A					Offset Site Error:	0 00 us
iurvey Prog				WSG. 1220-MV		3100-MWD - O	wsg		.				Offset Well Error:	ان 00 0
Refer		Offse		Semi Major		10-6-12-	D#		Dista			•		
Aeasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usit)	Factor		
6,700.00		6,650.00	6,642 32	16.05	14.83	179 80	144.67	29.51	286 16	256.83	29.33	9.757		
6,800.00		6,713.10	6,704 39	16.34	14 97	179.80	133 49	29 53	303 73	274.31	29 42	10 325		
6,900.00		6,774.81	6,763 55	16.62	15 09	179 80	116.03	29.57	332 08	302.72	29 36	11.310		
7,000.00		6,832 16	6,816.55	16 91	15 19	179.81	94 19	29 62	370.23	341.05	29 19	12 686		
7,100.00		6.884 57	6,862.86	17 20	15 29	179.81	69 68	29.67	417 05	388 12	28.94	14 412		
7,200.00	7,174.58	6,931 89	6,902.59	17 50	15.38	179 82	44.00	29.73	471 38	442 72	28.66	16.446		
7,300.00	7,274 58	6,974.28	6,936 28	17 80	15 48	179.82	18 29	29.79	532.10	503 71	28 39	18.744		
7,400.00		7,012.07	6,964.63	18.10	15 56	179.82	-6 68	29.84	598 22	570.09	28 14	21.260		
7,500.00		7.050.00	6,991.38	18 40	15.64	179.83	-33 57	29.90	668.92	540.92	28.00	23.891		
7,600.00		7,030.00	7,008.39	18 70	15.69	179.83	-52 69	29.94	743.36	715.61	27.76	26 782		
7,700.00		7 100.00	7,008.39	19 01	15.74	179.83	-71.61	29.99	821.04	793.44	27 60	29.751		
1,700.00	1,014.30	7 100.00	7,023 31	1301	10.74	11300	-71.01	23.33	021.04	, 55.44	27 00	23.731		
7,800.00	7,774.58	7,126.03	7,039.34	19.31	15 82	179.83	-92 48	30.03	901 40	873.85	27 55	32.722		
7,900.00		7.150.00	7,052.80	19.62	15.89	179.83	-112 32	30 08	984.05	956 52	27.53	35 741		
8,000 00		7,166.44	7,061 54	19 93	15 95	179 83	-126 25	30 11	1,068.61	1,041 12	27 49	38 866		
8,100 00		7,183.68	7.070 27	20.24	16 01	179 84	-141 11	30 14	1,154 84	1.127 32	27.51	41 976		
8,200 00		7,200.00	7,078.13	20.56	16 06	179.84	-155 41	30 17	1,242 47	1.214 90	27 58	45.054		
8,300 00	8,274 58	7,200.00	7,078 13	20 87	16 06	179.84	-155 41	30 17	1,331 55	1.304 02	27.53	48 365		
8,400.00	8,374.58	7,226.27	7,089.90	21 19	16 17	179.84	-178.89	30.22	1,421 24	1.393.49	27.75	51 214		
8,500.00	8,474 58	7,250 00	7,099 61	21 51	16 26	179.84	-200 55	30.27	1,512.24	1.484.27	27.97	54 065		
8.600.00	8,574.58	7,250 00	7.099.61	21 83	16 26	179.84	-200.55	30 27	1,603 70	1.575.68	28.03	57 221		
8,700.00	8,674 57	7,250 00	7,099.61	22 14	16.26	-0 03	-200 55	30 27	1,696 03	1,667 92	28 11	60 332		
8,800.00		7,270 46	7,107 25	22 38	16 36	-0.02	-219.52	30.31	1,783 92	1,755 63	28 29	63.059		
8,900.00		7,300 00	7,117.07	22 55	16.49	-0.02	-247.38	30.37	1,864 01	1,835 55	28.47	65 482		
9.000.00	8,958.56	7,300.00	7,117 07	22 66	16 49	-0 01	-247.38	30 37	1,933 88	1,905 47	28 41	68 059		
9,100 00	9,038 58	7,319.47	7,122.75	22 74	16.59	-0.01	-266.00	30.42	1,993 06	1,964 61	28.45	70 057		
9,200 00	9.107 00	7,350 00	7,130 39	22 80	16 75	-0 01	-295.56	30.48	2,040 42	2.011 90	28.52	71 549		
0.000.00	0.404.76	7 250 00	2 400 00	22.50	40.75	0.04	205.50	20.10	0.074.00	204246	00.40	70.000		
9,300 00		7,350.00	7,130.39	22.89	16 75	-0 01	-295.56	30 48	2,074 88	2,046 45	28 43	72 980		
9,400 00		7.380.39	7,136.41	23 02	16.92	-0.01	-325 34	30.55	2,096 03	2,067 53	28.50	73.539		
9,500 00		7.400.00	7,139.45	23 22	17 03	-0 01	-344.71	30.59	2.103 70	2.075 15	28 55	73 682		
9,600 00		7,423 11	7,142 19	23.48	17.18	-0 01	-367 66	30 64	2,097 92	2,069.27	28 65	73 213		
9,700 00	9,229 96	7,450 00	7,144 20	23 83	17 34	-0.01	-394 47	30 70	2,089 99	2.061 17	28 83	72.500		
9,800 00	9,229 96	7,466 04	7,144 80	24.30	17 45	-0 01	-410 50	30 73	2,085 74	2,056 69	29 04	71811		
9,900 00		7,517 10	7.144 96	24.87	17.81	-0.01	-461.55	30.85	2,085.00	2,055 58	29 42	70 859		
9,939 18		7,556 28	7,144.96	25 13	18 11	-0 01	-500.74	30.83	2,085.00	2,055 36	29 64	70 336		
10,000 00		7,617 10	7,144.96	25 13 25 54	18 59	-0 01	-561 55	30 93	2,085.00	2,055.01	29 64	69.521		
10 100 00		7,717 10	7.144.96	26 30	19 48	-0.01	-661 55	31 29	2.085 00	2,053.01	30.63	68.071		
	J,EEJ 30	.,	4.30	20 30		0.01	55.33	5.25	2,000 00	2,004 07	50.05	00.0.1		
10,200.00	9,229 96	7,817.10	7,144.96	27 14	20 48	-0.01	-761.55	31 51	2,085 00	2,053 67	31 34	66 535		
10 300 00		7.917 10	7,144 96	28 05	21 55	-0 01	-861.55	31 73	2.085 00	2,052.90	32 11	64.939		
10 400 00		8.017 10	7,144.96	29 04	22 70	-0 01	-961.55	31 95	2.085 00	2,052.07	32 94	63.305		
10 500 00	9,229.97	8,117 10	7,144.97	30 08	23 91	-0 01	-1,061 55	32 17	2.085.00	2,051 18	33.82	61 654		
10 600 00		8,217.10	7,144 97	31 18	25 18	-0.01	-1,161.55	32 39	2,085 00	2,050 25	34 75	60 000		
10,700 00		8,317.10	7,144 97	32 33	26 49	-0 01	-1,261 55	32.61	2,085 00	2,049 28	35 73	58.359		
10,800 00		8,417.10	7,144.97	33 52	27 84	-0 01	-1,361 55	32 83	2.085 00	2,048 26	36.75	56 741		
10,900 00	9.229.97	8,517 10	7,144 97	34 75	29 22	-0.01	-1,461 55	33.05	2,085 00	2,047 20	37 80	55 155		
11,000 00	9,229.97	8,617 10	7,144 97	36 02	30 63	-0.01	-1,561 55	33 27	2,085 00	2,046 11	38 89	53.607		
11,100 00	9,229.97	8,717 10	7,144 97	37 32	32.07	-0 01	-1.66155	33 49	2,085 00	2,044 98	40 02	52 102		
11,200 00		8,817 10	7 144 97	38 64	33 53	-0 01	-1,761 55	33 71	2,085.00	2,043.83	41 17	50.644		
11,300 00	9,229 98	8,917 10	7,144.97	40 00	35.00	-0 01	-1,861 55	33 93	2.085 00	2,042 65	42 35	49 234		
11,400.00	9,229 98	9,017 10	7,144.98	41 38	36.50	-0.01	-1,96155	34 16	2,085.00	2,041 45	43 55	47.873		
11,500.00	9,229 98	9,117.10	7,144.98	42 77	38 01	0 00	-2,061 55	34 38	2,085.00	2,040 22	44.78	46 562		
11,600 00		9,217 10	7,144.98	44 19	39 53	0.00	-2,161.55	34 60	2.085 00	2.038 98	46 03	45 300		
11,700 00	9,229 98	9,317 10	7,144 98	45 63	41 07	0.00	-2,261.55	34 82	2,085.00	2,037 71	47 29	44.088		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM

Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Well: 0.00 usft No. 131H

Well Error: Reference Wellbore 0.00 usft OH

Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Offset De	sign	Cueva I	De Oro Fe	d (111-121-	131-201)	- No. 111H	- OH - Prelim	Plan A					Offset Site Error:	0 00 us
urvey Prog	ram: 0-M	WD - OWSG 4	00 - DWM-00	WSG 1220-MV	VD - OWSG	3100-MWD - O	wsg						Offset Well Error:	0 00 us
Reference		Offset		Semi Major Axis			Distance							
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 (usit)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,800.00	9,229 98	9,417 10	7,144.98	47.08	42.61	0 00	-2,361.55	35 04	2.085 00	2.036 43	48.58	42.923		
11,900.00	9,229.98	9,517.10	7,144.98	48 54	44 17	0 00	-2,461.55	35 26	2.085.00	2,035 13	49 88	41 804		
12,000.00	9,229.98	9,617.10	7,144.98	50 02	45 73	0.00	-2,561.55	35 48	2.085.00	2,033 81	51.19	40 731		
12,100.00	9,229 98	9,717.10	7,144.98	5151	47 30	0 00	-2,661.55	35 70	2,085 00	2,032 48	52.52	39 700		
12,200.00	9,229.99	9,817 10	7,144.98	53.01	48 88	0.00	-2,761 55	35.92	2,085 00	2.031.14	53.86	38 712		
12,300 00	9,229 99	9,917 10	7,144 99	54 52	50 46	0 00	-2,861.55	36 14	2,085 00	2,029.79	55.21	37 763		
12,400.00	9,229.99	10,017 10	7,144.99	56 04	52.05	0.00	-2,961.55	36 36	2,085.00	2,028.42	56 58	36 853		
12,500.00	9,229.99	10,117 10	7,144.99	57.57	53.64	0.00	-3,061.55	36 58	2,085.00	2.027.05	57 95	35.979		
12,600.00	9,229.99	10.217 10	7,144 99	59.11	55.24	0.00	-3,161 55	36 80	2,085.00	2,025.67	59.33	35 140		
12,700.00	9,229 99	10,317 10	7,144 99	60.65	56.84	0.00	-3.261.55	37 02	2,085 00	2,024.27	60.73	34.334		
12,800.00	9.229.99	10,417 10	7,144.99	62.20	58 45	0 00	-3.361 55	37 24	2,085.00	2,022.87	62.13	33.559		
12,900.00	9.229.99	10,517.10	7,144 99	63.76	60 06	0.00	-3,461 55	37.46	2,085 00	2,021.46	63.54	32.815		
13,000.00	9,229.99	10,617.10	7,144 99	65.32	61.68	0 00	-3,561 55	37.68	2,085 00	2.020 05	64.95	32.100		
13,100.00	9,229 99	10,717 10	7,144 99	66.89	63 29	0.00	-3,661 55	37 90	2,085 00	2,018 62	66 38	31.412		
13,200.00	9,230 00	10,817.10	7,145.00	68.46	64.91	0 00	-3,761.55	38.13	2,085 00	2.017 19	67 81	30.750		
13,300.00	9,230.00	10,917 10	7.145 00	70.04	66.53	0.00	-3.861 55	38 35	2,085 00	2,015 76	69 24	30 112		
13.400 00	9,230.00	11,017 10	7,145 00	71.62	68 16	0.00	-3,961 55	38 57	2,085.00	2,014.32	70.68	29.498		
13,500.00	9,230 00	11,117.10	7,145 00	73 21	69 79	0.00	-4,061.55	38.79	2,085 00	2,012.87	72 13	28 907		
13,596.48	9,230 00	11,213 57	7,145 00	74 74	71 36	0.00	-4,158 02	39 00	2,085.00	2,011 47	73 53	28.357		



Anticollision Report



Company:

Well Error:

Matador Resources

Project: Reference Site: Eddy County, NM Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Well:

0.00 usft No. 131H 0.00 usft

Reference Wellbore

Reference Design:

OH

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Output errors are at Database: Offset TVD Reference: Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1

Offset Datum

urvey Progi	sign ram: 0-M			d (111-121- wsg 1220- m v		3100-MWD - 01							Offset Well Error:	0 00 0
Refer	ence	Offs	et	Semi Major	Axis				Dista	nce			_	
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	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		
0.00	0.00	-	0.00	0.00	0 00	-178 09	-30.00	-1 00	30 02					
100.00	100.00	0.00			0.13	-178.09	-30.00	-1 00	30.02	29.76	0.26	117.112		
200.00	200.00	100.00 200.00	100.00 200.00	0.13 0.49	0.13	-178.09	-30.00	-1.00	30.02	29.04	0.26	30.842		
300.00	300.00				0.49	-178.09	-30.00	-1.00	30.02	28.33	1 69	17 759		
	400.00	300.00	300.00	0.85				-1 00	30.02	27.61	2 41	12,470		
400.00 500.00	500.00	400.00	400.00	1 20	1 20	-178.09 -178.09	-30.00 -30.00	-1 00 -1 00	30.02	27.23	2.79	10.764		
500.00	500.00	500.00	500 00	1 39	1.39	-178.09	-30.00	-100	30.02	21.23	2.79	10.764		
600.00	600.00	600.00	600.00	1.48	1 48	-178.09	-30.00	-1 00	30.02	27.05	2.97	10.116		
700.00	699.98	701.06	701 04	1 65	1.65	178.00	-28.23	-0 82	30.00	26.70	3 30	9.097		
800 00	799.84	802 11	801 94	1 87	1 88	177 67	-22.91	-0 30	29.95	26 22	3 74	8.012		
900.00	899.45	903 16	902.60	2.14	2.15	177.11	-14.05	0 57	29 88	25.53	4.26	7 022		
906.90	906 31	910.13	909.53	2 16	2.16	177.07	-13.31	0 65	29.87	25.58	4.29	6 959 0	C. ES	
		0.00	000.00										-, -,	
1,000 00	998 76	1.003 12	1,002.01	2 44	2 44	176.62	-3 66	1 60	31 21	26 38	4.83	6 460		
1,100.00	1,098.01	1,103.10	1,101.44	2 77	2.77	176 22	6 75	2 63	32 98	27 54	5 44	6.058		
1,200.00	1,197.27	1,203.09	1,200 88	3 11	3 10	175 86	17 15	3 65	34 75	28 67	6 08	5.715		
1,300.00	1,296.52	1,303.07	1,300 32	3.32	3 30	175.54	27 55	4 68	36 52	30 10	6 42	5 692		
1,400.00	1,395.78	1,403.06	1,399 75	3 4 1	3 38	175.24	37.95	5 71	38.29	31 79	6 50	5.889		
1,500.00	1,495.03	1,503.04	1,499 19	3.55	3 50	174 97	48 35	6 73	40 07	33 40	6 67	6.008		
1,600.00	1,594.28	1.603 02	1,598.62	3.73	3.67	174 72	58.75	7 76	41 84	34.93	6 91	6.055		
1,700.00	1,693 54	1,703 01	1,698 06	3.93	3.86	174 50	69.15	8 78	43 61	36.39	7 22	6.041		
1,800 00	1,792 79	1.802.99	1,797 50	4 17	4 08	174 29	79 55	981	45 39	37 80	7.59	5.982		
1,900.00	1,892.05	1,902.98	1,896.93	4.43	4 33	174 10	89 95	10 84	47 16	39 16	8 0 1	5 891		
2,000.00	1,991.30	2,002.96	1,996.37	4 72	4 60	173 92	100 35	11.86	48.94	40 47	8 47	5.779		
2,100.00	2,090.56	2.102.94	2.095 81	5.01	4 88	173.75	110.75	12.89	50 72	41.75	8 97	5.656		
2,200.00	2,189.81	2,202.93	2,195 24	5.33	5 18	173 60	121 15	13 92	52.49	43.00	9.50	5.527		
2,300.00	2,289.07	2.302 91	2 294 68	5 65	5.49	173 45	131.55	14 94	54 27	44.22	10 05	5.398		
2,400.00	2,388.32	2.402 90	2,394 12	5.98	5 81	173.31	14195	15.97	56.05	45 42	10 63	5.272		
					•									
2,500.00	2,487.58	2,502 88	2,493,55	6.32	6 14	173 19	152.35	17.00	57.83	46 60	11 23	5.150		
2,600.00	2,586.83	2.602.87	2.592 99	6 67	6 47	173.07	162.76	18.02	59.60	47 76	11.84	5.034		
2,700.00	2,686.09	2.702 85	2,692 43	7.03	6.81	172 95	173.16	19.05	61 38	48 91	12.47	4.924		
2,800.00	2,785.34	2.802.83	2.791 86	7.39	7 16	172 85	183.56	20 07	63 16	50 06	13.10	4 820		
2,900.00	2,884.60	2.902.82	2,891.30	7 75	7.51	172.75	193.96	21 10	64 94	51 19	13.75	4.722		
	0.000.05				* 0.7	470.05	05446	20.40	05.70	50.04				
3,000.00	2,983.85	3.002 80	2,990.73	8 12	7.87	172 65	204 36	22 13	66.72	52 31	14.41	4 631		
3,100.00	3,083.10	3.102.79	3,090 17	8 49	8.22	172.56	214 76	23 15	68 50	53 43	15.07	4.546 9	it.	
3,200.00	3,182.36	3.202 77	3,189.61	8 72	8.43	172.48	225 16	24.18	70 28	54 87	15 40	4 562		
3,300.00	3.281.61	3,302.75	3.289.04	8 82	851	172 39	235 56	25 21	72.06	56 61	15 44	4 666		
3,400 00	3,380 87	3.402 74	3,388 48	8 94	8 62	172 32	245.96	26 23	73.83	58 32	15.52	4 758		
3,500 00	3,480 12	3.502.72	3,487.92	9.08	8.73	172 24	256 36	27 26	75 61	59 99	15.63	4.839		
3,600 00	3,460 12	3,600 60	3,457.92	9.08	8.86	172 30	265 48	28 16	78 48	62 72	15.03	4.039		
3,700.00	3,678.63	3,600 60				172 72	27131	28.73	84.63	68 72	15 76	5 317		
3,800.00	3,777.89		3,682.26	9.40	8.97		271.31	28.99	94.12	78.04				
	3,777.89	3,794 25	3,778 79	9.58	9 0 7	173 39	273.86		106 10	78.U4 89.79	16.08	5 852		
3,900.00	3,6// 14	3,907 40	3,877 14	9 78	9 18	174 13	274 00	29 00	106 10	89 79	16.31	6.506		
4.000 00	3,976 40	4.008.14	3,976.40	9 98	9.29	174.73	274 00	29 00	118.23	101 67	16 56	7 139		
4,100.00	4,075 65	4.108.89	4,075.65	10 20	9 42	175.22	274.00	29 00	130 37	113.53	16.84	7 740		
4,200.00	4,175 01	4.209 53	4,175.01	10 43	9 55	175.62	274 00	29 00	141 61	124 46		8.257		
4,300.00	4,274.69	4.309 85	4,274 69	10 63	9 70	175 86	274.00	29 00	149 52	132 04	17 48	8 554		
4,400.00	4,274.09	4.409.95	4,274.58	10 81	986	175 99	274.00	29 00	153 96	136 12		8.634		
→, + 00 00	4,374.00	7.409.95	4,3/4.00	1001	9 00	11.0 89	214 00	23 00	133 30	130 12	(/ 63	0.034		
4,500.00	4,474 58	4.509 96	4,474.58	10 97	10.03	179 82	274 00	29 00	155 00	136 80	18 20	8 5 1 6		
4,600.00	4,574 58	4.609 96	4,574.58	11 13	10.20	179 82	274 00	29.00	155 00	136.41	18 59	8 338		
4,700.00	4,674 58				10.39	179.82	274 00	29.00	155 00	136.41	19 00	8 158		
		4,709 96	4,674.58	11 30										
4,800.00	4,774 58	4.809 96	4.774.58	11.48	10.59	179 82	274 00	29.00	155 00	135.58		7 979		
4,900 00	4,874 58	4.909 96	4,874 58	11 66	10 79	179.82	274 00	29 00	155.00	135 13	19 87	7 801		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM

Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Well:

Well Error:

0.00 usft No. 131H

Reference Wellbore

0.00 usft ОН

Reference Design: Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference: Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1

Offset Datum

urvey Prog						3100-MWD - 0	WSG		Ďi-t-				Offset Well Error:	0 00 us
Refer		Offs		Semi Major		Makada	04		Dista					
easured Depth (usfl)	Vertical Depth (usfi)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (*)	Offset Wellbor +N/-S (usit)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,074.58	5,109.96	5 074 58	12.06	11.23	179 82	274 00	29.00	155.00	134.20	20 80	7 452		
5,200.00	5,174.5B	5,209.96	5,174 58	12.27	11.45	179 82	274 00	29 00	155.00	133.71	21 29	7 281		
5,300.00		5,309 96	5.274 58	12 49	11.69	179.82	274.00	29.00	155.00	133.21	21 79	7.114		
5,400.00		5,409.96	5,374 58	12 71	11 93	179 82	274 00	29 00	155 00	132 70	22 30	6.951		
5,500.00		5,509.96	5 474 58	12 94	12 17	179.82	274 00	29 00	155.00	132 18	22 82	6.792		
5,600.00		5,609.96	5 574.58	13 17	12 42	179 82	274.00	29 00	155.00	131.65	23 35	6.637		
	4,5													
5,700.00	5,674.58	5.709.96	5.674 58	13 41	12.68	179 82	274.00	29.00	155 00	131 10	23 90	6.486		
5,800.00	5,774.5β	5,809.96	5 774 58	13.65	12.94	179.82	274 00	29.00	155.00	130.55	24 45	6.340		
5,900.00	5,874.58	5,909.96	5 874 58	13 90	13.20	179.82	274 00	29 00	155 00	129.99	25 01	6.198		
6,000.00		6.009.96	5,974 58	14 16	13.47	179 82	274 00	29 00	155 00	129.42	25 58	6.060		
6,100.00	6,074 58	6,109 96	6,074 58	14 42	13 75	179.82	274 00	29 00	155.00	128.85	26 15	5.927		
6,200.00	6,174.58	6,209 96	6,174 58	14 68	14 03	179 82	274 00	29 00	155.00	128.27	26 73	5.798		
6,200.00	6,174.58	6,309.96	6,274 58	14 95	14.31	179.82	274 00	29 00	155.00	120.27	27 32	5 673		
6,400.00	6,374.58	6,409.96	6,374 58	15.22	14.59	179.62 179.82	274 00	29 00	155 00	127.08	27 32	5 552		
6,500.00		6,509 96	6,474.58	15.22	14.88	179 82	274 00	29 00	155.00	126.48	28 52	5.435		
	6,574.58	6,609 96	6,574.58	15 49	15 17	179 82	274 00	29 00	155.00	125.88	29 12	5.435		
6,600.00	0,374.30	0,000 30	0,574 38	15 11	1317	11304	214 00	25 00	199.00	123.08	29 12	3 342		
6,700.00	6,674 58	6,709 96	6,674 58	16 05	15.47	179 82	274 00	29 00	155 00	125 27	29.73	5.213		
6,800.00	6,774.58	6.809.96	6,774 58	16.34	15 76	179 82	274 00	29 00	155.00	124.65	30 35	5.108		
6,900.00		6,909 96	6,874 58	16.62	16 06	179 82	274 00	29 00	155.00	124.03	30 97	5 005		
7,000 00		7,009 96	6,974 58	16 91	16.36	179 82	274 00	29 00	155.00	123 41	31 59	4.907		
7,100 00		7 109 96	7,074 58	17 20	16.67	179 82	274 00	29 00	155.00	122 78	32 22	4 811		
7,200 00	7,174.58	7,209.96	7,174 58	17.50	16 97	179 82	274 00	29 00	155 00	122 15	32 85	4 7 19		
7,300 00	7,274 58	7.290 04	7,274 58	17.80	17.22	179 82	274.00	29 00	155.00	121.58	33 42	4.638		
7,400 00	7,374.58	7,374.39	7,358.84	18 10	17 45	179 82	271 17	29 01	158 61	124 76	33 85	4.686		
7,500 00	7,474.58	7,450 00	7.433 36	18.40	17 62	179 82	258 74	29 03	175 18	141 28	33 90	5 168		
7,600.00	7,574.58	7.522.74	7,502 91	18.70	17 74	179.83	237 62	29 08	204 36	170 62	33 74	6 058		
7 700 00	7.674.50	7,588.50	7,563.04	19 01	17 83	179 83	211 08	29 14	244 81	211 43	33 37	7 335		
7,700 00	7,674 58	7,650.00	7,563.04	19.31	17 91	179 84	180 18		294.96	261 94	33.02	7 335 8 934		
7,800.00	7,774 58							29 21						
7,900.00	7,874.58	7,700 00 7,750 00	7,656.75 7,694.61	19 62 19 93	17 96 18 02	179 84 179 84	150.97 118 34	29 28 29 35	353 20 418 20	320 71 386.02	32 49 32.18	10.872 12.995		
8,000.00	7,974 58	7,784 49			18 06	179 85	93.96	29 33	488 55		31.67			
8,100.00	8,074 58	7,784 49	7,719 00	20 24	18 00	1/9 65	33.96	29 41	400 55	456 88	31.07	15 427		
8,200.00	8,174 58	7.819.09	7,741 96	20 56	18.11	179.85	68.08	29 46	563 40	532 03	31.37	17 961		
8,300 00	8,274 58	7,850 00	7,761 11	20 87	18 15	179 85	43.83	29.52	641 88	610 73	31 15	20 606		
8,400.00	8,374 58	7.875 81	7.776 08	21 19	18 20	179 85	22 80	29 57	723 32	692 35	30 97	23 353		
8,500.00	8,474 58	7,900 00	7,789 24	21 51	18 24	179.85	2.51	29.61	807.21	776.33	30 88	26 139		
8,600 00	8,574.58	7,919.75	7 799.34	21 83	18 28	179 85	-14 46	29 65	893.12	862 29	30 82	28.977		
8,700.00	8,674 57	7,950 00	7,813 66	22 14	18 34	-0 02	-41 10	29 71	980.78	949 82	30 95	31 687		
8,800.00	8.773 75	7.950 00	7,813 66	22 38	18.34	-0 01	-41 10	29.71	1,063 78	1,033.11	30 67	34 681		
8,900.00	8,869 38	7,980,73	7,826 75	22 55	18 42	-0 01	-68 91	29 77	1,138.43	1,107 76	30 68	37 112		
9,000.00	8.958 56	8,000 00	7.834 18	22.66	18 47	-0.01	-86 68	29.81	1,203.76	1,173 24	30 52	39 442		
9,100 00	9,038 58	8.032.06	7,845 22	22.74	18.57	-0.01	-116 77	29 88	1,258.68	1,228 23	30 45	41 336		
0.000.00	0.467.57	0.050.00	7.050.00	20.00	40.00	0.01	122.07	20.00	. 202 ~ .	1 272 17	20.07	42.040		
9,200 00	9,107 00	8,050 00	7,850 66	22 80	18 62	-0 01	-133.87	29 92	1,302.74	1,272 47	30.27	43.040		
9,300.00	9,161.75	8,100.00	7,862.96	22.89	18.79	-0 01	-182.32	30 03	1,335 15	1,304 84	30 32	44 039		
9,400 00	9,201 16	8.117.61	7,866.28	23.02	18 86	-0 01	-199 61	30 07	1,355 41	1.325 21	30 20	44 882		
9,500 00	9,224 04	8,150 00	7,870 99	23 22	18 99	-0 01	-231 65	30 14	1,363 67	1,333 44	30.23	45.115		
9,600 00	9,229 96	8,176.69	7,873 51	23 48	19 11	-0 01	-258 22	30 20	1,359 89	1,329 59	30 31	44.871		
0.700.00	0.220.00	8.206.34	7,874 85	23 83	19.24	-0 01	-287 84	30 27	1,355.36	1,324.87	30 50	44 441		
9,700 00	9,229.96													
9,800 00	9,229 96	8,280.05	7,874 96	24 30	19 62	-0 01 -0 01	-361 55	30.43	1,355 00	1,324 11	30 89	43 869		
9,803.76	9,229 96	8.283 81	7,874 96	24.32	19 64		-365.31	30 44	1,355.00	1,324 10	30 91	43 843		
9,900 00	9,229 96	8.380 05	7,874 96	24.87	20 24	-0 01	-461 55 504 55	30 66	1,355 00	1,323 60	31 40	43 149		
10,000 00	9,229 96	8,480.05	7,874 96	25.54	20 98	0 00	-561.55	30 89	1,355 00	1,323 01	31 99	42 361		
10,100.00	9,229 96	8,580.05	7,874 96	26.30	21 81	0.00	-661.54	31 11	1,355.00	1,322.36	32.64	41 517		



Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Well: 0.00 usft No. 131H 0.00 usft

Well Error: Reference Wellbore

Reference Wellbore OH
Reference Design: Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Offset De	-				,		- OH - Prelim	Plan A					Offset Site Error:	0 00 us
urvey Prog		MWD - OWSG 4				3100-MWD - 0	WSG						Offset Well Error:	0.00 a
Refer	ence	Offse	et	Semi Major	Axis				Dist	ance				
leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	re Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usit)	(usft)	(*)	(usft)	(usft)	(neg)	(usft)	(usft)			
10,200.00	9,229.96	6 8,680.05	7,874.96	27.14	22.74	0.00	-761 54	31.34	1,355 00	1,321 65	33 35	40.631		
10,300.00	9,229 9	7 8,780.05	7,874.96	28 05	23.76	0.00	-861 54	31.56	1,355.00	1,320.88	34 12	39.713		
10,400.00	9,229 9	7 8,880.05	7,874.97	29.04	24.84	0.00	-961 54	31 79	1,355 00	1,320 06	34 94	38.777		
10,500.00	9,229 \$	7 8,980 05	7,874 97	30.08	25 98	0.00	-1,061 54	32.01	1,355.00	1,319.18	35 82	37.830		
10,600.00	9,229 9	7 9,080.05	7.874.97	31 18	27 18	0.00	-1,161 54	32.24	1,355.00	1,318.26	36.74	36.882		
10,700.00	9,229 9	7 9,180.05	7,874 97	32.33	28 43	0 00	-1,261 54	32 46	1,355 00	1,317 30	37 70	35.938		
10,800.00	9.229 9	7 9,280 05	7,874.97	33 52	29 72	0 00	-1,361 54	32 69	1,355 00	1,316 29	38 71	35.006		
10,900.00	9,229.9	7 9,380.05	7,874.97	34.75	31 05	0.00	-1,461.54	32 92	1,355.00	1.315 25	39 75	34.090		
11,000 00	9,229 9	7 9,480 05	7,874 97	36 02	32 41	0 00	-1,561 54	33 14	1,355 00	1,314 18	40 82	33 193		
11,100.00	9.229.9		7,874.97	37 32	33 80	0 00	-1,661 54	33 37	1,355 00	1.313 07	41 93	32.317		
11,200 00	9,229 9	8 9,680 05	7,874.97	38 64	35 21	0 00	-1,761 54	33.59	1,355 00	1,311 94	43.06	31.466		
11,300.00	9.229 9	8 9,780 05	7,874.98	40 00	36.64	0 00	-1,861 54	33.82	1,355.00	1,310 78	44.22	30.640		
11,400.00	9,229.9	8 9,880.05	7,874.98	41 38	38 10	0.00	-1.961 54	34 04	1,355.00	1,309 59	45 41	29.840		
11,500.00	9,229.9	8 9,980.05	7,874.98	42 77	39.57	0 00	-2.061.54	34.27	1,355.00	1.308 38	46 62	29 067		
11,600 00	9.229 9	8 10,080.05	7,874.98	44 19	41.05	0 00	-2,161 54	34.50	1,355.00	1,307 15	47 85	28 320		
11,700 00	9,229 9	8 10,180 05	7,874 98	45 63	42.55	0 00	-2.261 54	34.72	1,355.00	1,305 91	49 09	27 600		
11,800 00	9,229.9	8 10,280.05	7,874.98	47.08	44.07	0 00	-2.361 54	34 95	1,355.00	1 304 64	50 36	26.906		
11,900 00	9,229.9	8 10,380 05	7,874.98	48 54	45.59	0.00	-2.461.54	35 17	1,355 00	1 303 36	51 64	26 238		
12,000.00	9,229.9	8 10,480.05	7,874.98	50 02	47 12	0.00	-2.561.54	35 40	1,355 00	1,302 06	52.94	25 594		
12,100.00	9,229.9	8 10,580.05	7,874.98	51 51	48 67	0.00	-2.661.54	35 62	1,355 00	1,300 75	54.25	24 975		
12,200 00	9,229.9	9 10,680 05	7,874 98	53 01	50.22	0.00	-2.761.54	35 85	1,355 00	1.299 42	55 58	24 379		
12,300 00	9,229 9	9 10,780.05	7,874.99	54 52	51.78	0.00	-2,861.54	36.07	1,355 00	1,298 08	56 92	23 806		
12,400.00	9,229.9	9 10,880.05	7,874.99	56.04	53.35	0 00	-2,961 54	36.30	1,355 00	1,296 73	58 27	23.255		
12,500.00	9,229 9	9 10,980.05	7,874.99	57 57	54.92	0.00	-3.061.54	36.53	1,355 00	1.295 37	59 63	22 724		
12.600.00	9,229.9	9 11,080 05	7,874 99	59 11	56.50	0 00	-3.161.54	36.75	1,355 00	1,294 00	61 00	22.214		
12,700.00	9,229 9	9 11,180.05	7,874 99	60 65	58 08	0.00	-3 261 54	36 98	1,355 00	1,292 62	62 38	21 723		
12,800.00	9,229.9	9 11,280 05	7,874.99	62.20	59.67	0 00	-3,361.54	37.20	1,355.00	1,291 23	63 77	21 250		
12,900 00	9,229.9		7,874.99	63 76	61 26	0 00	-3,461.54	37.43	1,355.00	1,289 84	65 16	20 794		
13,000.00	9,229.9		7,874 99	65 32	62 86	0 00	-3,561.54	37.65	1,355 00	1,288 43	66 57	20 356		
13,100 00	9,229.9		7,874.99	66.89	64.46	0.00	-3,661.54	37.88	1,355.00	1,287 02	67 98	19.933		
13 200.00	9,230.0	0 11,680 05	7,875.00	68.46	66 06	0 00	-3,761.54	38 11	1,355 00	1,285 60	69.40	19 526		
13.300.00	9,230.0	0 11,780 05	7,875.00	70 04	67 67	0.00	-3,861 54	38.33	1,355 00	1,284.18	70.82	19.133		
13,400.00	9,230.0	0 11,880 05	7,875 00	71 62	69 28	0 00	-3,961.54	38.56	1,355 00	1,282.75	72.25	18 754		
13,500.00	9,230.0	0 11,980.05	7,875.00	73 21	70 90	0.00	-4.061 54	38 78	1,355 00	1,281.31	73 69	18.389		
13,596 48	9.230 0	0 12,076 53	7,875 00	74 74	72 46	0.00	-4,158 01	39 00	1.355 00	1,279 92	75.08	18 048		

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Pro Directional

Anticollision Report



Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error: Cueva De Oro Fed (111-121-131-201) 0.00 usft

Reference Well:

Well Error: Reference Wellbore

ОН

Reference Wellbore Reference Design:

No. 131H 0.00 usft

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database: Offset TVD Reference: Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

urvey Prog	raam: ∪-m	110 - 01130.				, 5.00	WSG 9724-MWD	- 01130					Offset Well Error:	0 00 us
Refer		Offs		Semi Major					Dista	nce				5 00 u
easured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	<u>.</u> .		Toolface	+NJ-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(*)	(usit)	(usft)	(usft)	(usft)	(usft)			
0.00	0 00	0 00	0.00	0.00	0 00	90 00	0.00	30 00	30 00					
100.00	100 00	100.00	100.00	0 13	0 13	90 00	0 00	30 00	30 00 .		0.26	117 047		
200.00	200.60	200 00	200.00	0 49	0 49	90 00	0.00	30.00	30 00	29 03	0 97	30 825		
300.00	300.00	300 00	300.00	0 85	0 85	90.00	0.00	30 00	30.00	28.31	1 69	17 749		
400 00	400 00	400.00	400.00	1 20	1 20	90.00	0.00	30 00	30.00	27 59	2.41	12 463		
500 00	500 00	500 00	500 00	1 39	1 39	90 00	0 00	30 00	30 00	27 21	2.79	10 758		
600.00	600.00	600 00	600.00	1 48	1.48	90.00	0 00	30 00	30 00	27.03	2 97	10 110		
700.00	699.98	700.00	699.98	1 65	1 65	86 19	1 75	29.99	29.88	26 58	3.30	9 067		
800 00	799 84	800.01	799.84	1 87	1.87	86 18	6.98	29 97	29.51	25 77	3.74	7 897		
900 00	899.45	900.01	899.46	2 14	2.14	86.15	15.69	29 94	28 90	24 63	4.27	6 771		
1,000 00	998 76	1,000 00	998 70	2 44	2 44	85 22	27.88	29 90	28 08	23 21	4.88	5 759		
1,000 00	330 10	1,000 00	33570		2	03 22	2. 00	25 30	20 00	2321	4.00	0.05		
1,100 00	1,098 01	1,100.02	1,097.71	2 77	2.77	81 47	41 79	29 85	27 32	21 78	5 54	4 930		
1,200 00	1.197.27	1,200.04	1,196 72	3 11	3 13	77 52	55 71	29 80	26.67	20 43	6.24	4 275		
1,300 00	1,296.52	1,300.06	1,295 73	3 32	3 35	73.39	69.62	29 75	26 16	19 51	6.65	3 932		
1,400 00	1.395.78	1.400.08	1,394 73	3 41	3 45	69 13	83.54	29 70	25 79	18 96	6.83	3 775		
1,500 00	1,495.03	1,500 10	1,493 74	3 55	3.60	64 77	97 45	29 65	25 56	18 48	7.08	3 610		
1,599 10	1 593.39	1,601.02	1,591.85	3 72	3 80	60.39	111 24	29 60	25 49	18 09	7.40	3 446 CC		
1,600 00	1.594.28	1 600 12	1,592 75	3.73	3.79	60.35	111.37	29.60	25 49	18.09	7.39	3 447		
1,700 00	1 693.54	1,700 14	1,691 76	3 93	4.02	55 93	125 28	29 55	25 57	17 81	7 76	3 296		
1,800 00	1,792 79	1,800 15	1,790.76	4 17	4 27	51 57	139 20	29 50	25 79	17.64	8.16	3 162		
1,900 00	1,892 05	1,900 17	1,889 77	4 43	4.55	47 31	153 11	29.45	26 17	17 58	8 59	3 046 ES		
2,000 00	1,991 30	2,000.19	1.988 78	4.72	4 85	43 19	167 03	29 40	26 68	17 64	9.05	2 949		
2,100 00	2.090 56	2,100.21	2,087 79	5.01	5 16	39.24	180 94	29 35	27 33	17.80	9.53	2 869		
2,200 00	2,189.81	2,200.23	2,186 79	5.33	5.49	35.50	194 85	29.30	28 10	18.08	10 02	2 803		
2,300.00	2,289.07	2,300.25	2,285.80	5.65	5.43	31.97	208 77	29 25	28 98	18.44	10.54	2 749		
2.400.00	2,388 32	2,400 27	2,384.81	5 98	6 18	28 65	222 68	29.20	29 97	18 89	11.08	2 705		
2.400 00	2,555 52	2,100 21	2,004.0		0.0	20 00	222 00	25.20	25 5.	,505	11.00	2.00		
2.500 00	2,487.58	2,500.29	2,483 82	6 32	6.54	25 56	236 60	29 15	31 05	19 42	11.63	2 670		
2.600 00	2,586 83	2,600.31	2,582.82	6 67	6 90	22 69	250 51	29 10	32 22	20 02	12.20	2 64 1		
2 700 00	2,686 09	2,700 33	2.681 83	7 03	7 27	20 02	264 43	29 05	33 46	20.68	12.78	2 618		
2.800.00	2,785.34	2,800.35	2,780.84	7 39	7 64	17 55	278 34	29.00	34 76	21 38	13.38	2.598		
2 900.00	2,884 60	2,900.37	2,879 85	7.75	8 02	15 26	292 26	28.94	36 13	22 14	13.99	2.582		
	0.000.00				2	-0.4.						0.500		
3 000.00	2,983 85	3,000 39	2,978 85	8 12	8.40	13 14	306 17	28 89	37 55	22 94	14 62	2.569		
3 100.00	3,083 10	3,100 41	3,077 86	8 49	8 79	11 18	320.08	28.84	39 02	23 77	15.25	2 558 SF		
3 200.00	3.182 36	3,200 43	3.176 87	8 72	904	9 36	334.00	28 79	40 53	24 96	15 57	2.604		
3 300 00 3 400 00	3,281 61 3,380 87	3,300 45 3,400 46	3.275.88 3.374.89	8 82 8 94	9 16 9 30	7 67 6.11	347.91 361.83	28 74 28 69	42 08 43 66	26 50	15 58	2 700 2.793		
3 400 00	3,380 8/	3,400 46	3,374,89	0 94	9 30	6.11	361.83	28 09	43 06	28.03	15.64	2.793		
3 500.00	3,480.12	3,500 48	3,473 89	9 08	9 46	4 65	375.74	28 64	45 28	29 55	15.72	2.879		
3,600 00	3,579.38	3,600 50	3,572.90	9 23	9 6 4	3 30	389.66	28 59	46 92	31 07	15 85	2.960		
3,700 00	3,678 63	3,700 52	3,671 91	9 40	9.82	2 04	403.57	28.54	48 58	32.57	16 01	3 034		
3,800 00	3,777.89	3,800.54	3,770 92	9.58	10.03	0.86	417 49	28 49	50 27	34 06	16 21	3 101		
3.900 00	3 877 14	3 900.56	3,869 92	9 78	10 24	-0 24	431 40	28 44	51 97	35 54	16.44	3 162		
4.000.00	3.976 40	3,999.42	3,968 93	9 98	10 47	-1.27	445.32	28 39	53 70	37 00	16 70	3 216		
4,100 00	4,075 65	4,100 60	4.067 94	10 20	10 71	-2.23	459.23	28.34	55 44	38.45	16 99	3.263		
4,200.00	4,175.01	4,200.64	4,166 92	10 43	10 96	-3.09	473 14	28 29	58 11	40 80	17 31	3 357		
4,300 00	4,274.69	4,300.83	4,265 76	10 63	11.22	-3.68	487 03	28 24	64 14	46.49	17 66	3 633		
4,400 00	4,374.58	4,398 71	4,364 34	10 81	11.48	-3.97	500.89	28 19	73 65	55 63	18.02	4.088		
4,500 00	4.474 58	4,502 13	4,462 53	10 97	11 77	-0 24	514 69	28 14	86 53	68 12	18 41	4.701		
4,600.00	4,574.58	4,597 51	4.561.21	11 13	12 04	-0 23	528 50	26.09	100 39	81 60	18.80	5.341		
4,709 00	4.674 58	4,70D 67	4 663.68	11 30	12 32	-0.23	540.39	28.05	111 92	92.71	19.22	5.824		
4,800 00	4.774 58	4,804 57	4.767 24	11.48	12.57	-0 23	548 63	28 02	119 85	100.22	19 64	5.103		
4,900 00	4 874 58	4.908 92	4.871 49	11 66	12.79	-0 23	553 12	28 00	124 16	104 09	20 06	6 189		



Anticollision Report



Offset Site Error:

0 00 usft

Company:

Well Error:

Matador Resources

Project: Reference Site: Eddy County, NM Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Well;

Offset Design

0.00 usft No. 131H

0.00 usft

Reference Wellbore

ОН Reference Design: Prelim Plan A Local Co-ordinate Reference:

TVD Reference:

MD Reference:

Wer No. 131H well @ 3297.50usft

well @ 3297.50usft Grid

North Reference:

Survey Calculation Method:

Output errors are at Database:

Minimum Curvature 2.00 sigma

WellPlanner1 Offset Datum

Offset TVD Reference:

Cueva De Oro Fed (111-121-131-201) - No. 201H - OH - Prelim Plan A

Name	Warning
Depth Cent	·
Cart	
5,200.00 5,174.58 5,212.01 5,174.58 12,27 13.35 -0.23 554.00 28.00 125.00 103.06 21.44 5.800 5,300.00 5,274.58 5,312.01 5,274.58 12,11 13.76 -0.23 554.00 28.00 125.00 102.56 22.44 5.570 5,500.00 5,374.58 5,12.01 5,474.58 12,94 13.97 -0.23 554.00 28.00 125.00 102.64 22.96 5.445 5,500.00 5,574.58 5,512.01 5,674.88 13.17 14.18 -0.23 554.00 28.00 125.00 102.04 22.95 5.445 5,000.00 5,574.58 5,512.01 5,674.58 13.41 14.41 -0.23 554.00 28.00 125.00 100.98 24.02 5.03 5,000.00 5,774.58 5,812.01 5,774.58 13.65 14.87 -0.23 554.00 28.00 125.00 100.43 24.77 5.088 5,000.00 5	
5,200.00 5,174.58 5,212.01 5,174.58 1,274.91 13.35 -0.23 554.00 28.00 125.00 103.06 21.44 5.800 5.900.00 5,274.58 5,312.01 5,274.58 12.41 13.55 -0.23 554.00 28.00 125.00 102.56 22.44 5.570.00 5,570.00 5,574.88 5,12.01 5,474.88 12.41 13.97 -0.23 554.00 28.00 125.00 102.64 22.44 5.570.00 5,570.00 5,574.98 5,512.01 5,474.88 13.91 14.18 -0.23 554.00 28.00 125.00 102.04 22.95 5.445 5,570.00 5,574.98 5,512.01 5,674.98 13.41 14.41 -0.23 554.00 28.00 125.00 100.98 24.02 5.203 5,800.00 5,774.98 5,812.01 5,774.98 13.65 14.84 -0.23 554.00 28.00 125.00 100.43 24.77 5,088 5,900.00 5,974.98 6,012.01 5,074.98 14.16 15.1	
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7,700 00 7,674 58 7,712.01 7,674 58 19 01 19 72 -0 23 554 00 28 00 125 00 88 90 36 10 34 00 7,800 00 7,774 58 7,812 01 7,774 58 19 31 20 01 -0 23 554 00 28 00 125 00 88 25 36 75 34 01 7,900 00 7,874 58 7,912 01 7,874 58 19 62 20 31 -0 23 554 00 28 00 125 00 87 60 37 40 3342 8.000 00 7,974 58 8.012 01 7,974 58 19 93 20 61 -0 23 554 00 28 00 125 00 86 95 38 05 32 85 8.100.00 8.074 58 8,112 01 8,074 58 20 24 20 91 -0 23 554 00 28 00 125 00 86 30 38 70 32 30 8.200 00 8.074 58 8,112 01 8,074 58 20 24 20 91 -0 23 554 00 28 00 125 00 86 30 38 70 32 30 8.200 00 8,174 58 8,212 01 8,174 58 20 56 21 22 -0 23 554 00 28 00 125 00 85 64 39 36 3176 8.300 00 8,274 58 8,312 01 8,274 58 20 87 21 52 -0 23 554 00 28 00 125 00 85 64 39 36 3176 8.300 00 8,374 58 8,312 01 8,274 58 20 87 21 52 -0 23 554 00 28 00 125 00 84 98 40 02 3124 8.400 00 8,374 58 8,412 01 8,374 58 21 19 21.83 -0 23 554 00 28 00 125 00 84 32 40 68 3.073	
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7,900 00 7,874 58 7,912 01 7,874 58 19 62 20 31 -0 23 554 00 28 00 125 00 87 60 37 40 3.342 8.000 00 7,974 58 8.012 01 7,974 58 19 93 20 61 -0 23 554 00 28 00 125 00 86 95 38 05 3.285 8.100 00 8,074 58 8,112 01 8,074 58 20 24 20 91 -0 23 554.00 28 00 125 00 86 30 38 70 3.230 8.200 00 8,174 58 8,212 01 8,174 58 20 56 21 22 -0 23 554.00 28 00 125 00 85 64 39 36 3 176 8.300 00 8,274 58 8,312 01 8,274 58 20 87 21 52 -0 23 554 00 28 00 125 00 84 98 40 02 3 124 8.400 00 8,374 58 8,412 01 8,374 58 21 19 21.83 -0 23 554 00 28 00 125 00 84 32 40 68 3.073	
8.000 00 7,974 58 8.012 01 7,974 58 19 93 20 61 -0.23 554 00 28 00 125 00 86 95 38 05 3 285 8.100.00 8,074 58 8,112 01 8,074 58 20 24 20 91 -0.23 554.00 28 00 125 00 86 30 38 70 3 230 8.200 00 8,174 58 8,212 01 8,174 58 20 56 21 22 -0.23 554.00 28 00 125 00 85 64 39 36 3 176 8.300.00 8,274 58 8,312 01 8,274 58 20 87 21 52 -0.23 554.00 28 00 125 00 85 64 39 36 3 176 8.400.00 8,374 58 8,312 01 8,274 58 20 87 21 52 -0.23 554.00 28 00 125 00 84 98 40 02 3 124 8,400.00 8,374 58 8,412 01 8,374 58 21 19 21.83 -0.23 554.00 28 00 125 00 84 32 40 68 3.073	
8.100.00 8.074.58 8.112.01 8.074.58 20.24 20.91 -0.23 554.00 28.00 125.00 86.30 38.70 3.230 8.200.00 8.174.58 8.212.01 8.174.58 20.56 21.22 -0.23 554.00 28.00 125.00 85.64 39.36 3.176 8.300.00 8.274.58 8.312.01 8.274.58 20.87 21.52 -0.23 554.00 28.00 125.00 84.98 40.02 3.124 8.400.00 8.374.58 8.412.01 8.374.58 21.19 21.83 -0.23 554.00 28.00 125.00 84.32 40.68 3.073	
8.200 00 8,174 58 8,212 01 8,174 58 20.56 21.22 -0.23 554.00 28.00 125.00 85.64 39.36 3.176 8.300.00 8,274 58 8,312 01 8,274 58 20.87 21.52 -0.23 554.00 28.00 125.00 84.98 40.02 3.124 8.400.00 8,374.58 8,412 01 8,374.58 21.19 21.83 -0.23 554.00 28.00 125.00 84.32 40.68 3.073	
8.300.00 8.274.58 8.312.01 8.274.58 20.87 21.52 -0.23 554.00 28.00 125.00 84.98 40.02 3.124 8.400.00 8.374.58 8.412.01 8.374.58 21.19 21.83 -0.23 554.00 28.00 125.00 84.32 40.68 3.073	
8.300.00 8.274.58 8.312.01 8.274.58 20.87 21.52 -0.23 554.00 28.00 125.00 84.98 40.02 3.124 8.400.00 8.374.58 8.412.01 8.374.58 21.19 21.83 -0.23 554.00 28.00 125.00 84.32 40.68 3.073	
8 400 00 8 374 58 8 412 01 8 374 58 21 19 21 83 -0 23 554 00 28 00 125 00 84 32 40 68 3 073	
8.500.00 8,474.58 8,512.01 8,474.58 21.51 22.14 -0.23 554.00 28.00 125.00 83.66 41.34 3.024	
8.600.00 8.574.58 8.612.01 8.574.58 21.83 22.45 -0.23 554.00 28.00 125.00 83.00 42.00 2.976	
8.604.00 8.578.58 8.616.02 8.578.58 21.84 22.46 179.90 554.00 28.00 125.00 82.97 42.03 2.974	
8,700.00 8,674.57 8,712.01 8,674.57 22.14 22.76 179.90 554.00 28.00 125.27 82.60 42.67 2.936	
6.100 W 0.674.57 6.71201 6.674.57 2214 2276 77990 554.00 250.00 12527 6200 42.61 2936 8.800.00 8.773.75 8.811.19 8.773.75 22.38 23.07 179.91 554.00 28.00 137.02 93.73 43.29 3.165	
8,900 00 8,869.38 8,906.82 8,869.38 22.55 23.37 179.92 554.00 28.00 165.82 121.93 43.89 3.778	
0.000.00 8,958.55 9,036.73 8,998.56 22.66 23.69 179.94 542.84 28.03 203.58 159.65 43.94 46.33	
1000 1000 1000 1000 100 100 100 100 100	
9,100 00 9,038,58 9,191.17 9,144.09 22.74 23.88 179.95 492.58 28.14 234.24 191.70 42.54 5.506	
9,200 00 9 107 00 9,362 44 9,283 29 22.80 23 93 179 95 393 89 28 36 25 4 24 21 4 54 39 70 6,405	
9.300 00 9 161 75 9.544 24 9.392 27 22 89 23 93 179 95 249 32 28 69 260 88 224 54 36 35 7 178	
9.400 00 9.201 16 9,725.59 9.450 62 23 02 24 04 179 95 78 43 29 08 253 14 218.81 34 33 7 374	
9.500 00 9.224.04 9.858 74 9.464 25 23 22 28 12 179 95 .53 92 29 38 240.34 206 82 33 51 7 171	
9.599 97 9,231 22 9,986 24 9,464 77 23 48 28 17 179 95 -161 42 29 64 233 55 199 93 33 61 6 948	
9,600.00 9,229.96 9,966.34 9,464.77 23.48 28.17 179.95 -161.52 29.64 234.81 201.19 33.61 6.985	
9,700.00 9,229 96 10,066 34 9,464 77 23 83 28 22 179 95 -261 52 29 87 234 81 200 90 33 91 6 925	
9,800 00 9,229 96 10,166 34 9,464 78 24 30 28 27 179 95 -361.52 30 10 234 82 200 54 34 27 6 85 1	
9,900 00 9,229 96 10,266.34 9,464.78 24.87 28.32 179.95 -461.52 30.34 234.82 200.12 34.71 6.766	
10,000.00 9,229.96 10,366.34 9,464.79 25.54 28.38 179.95 -561.52 30.57 234.83 199.62 35.20 6.671	



Anticollision Report



Company:

Matador Resources

Project:

Eddy County, NM

Reference Site: Site Error:

Cueva De Oro Fed (111-121-131-201)

Reference Well: Well Error:

No. 131H 0.00 usft

Reference Weilbore Reference Design:

ОН

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Offset TVD Reference:

Database:

Survey Calculation Method:

Output errors are at

Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Survey Prog	esign ıræn: 0-M	Cueval Owsg 4		WSG 1220-MV	vo - owsg	3100-MWD - O	WSG 9724-MWD	- OWSG					Offset Well Error:	0.00
Reference				Semi Major Axis			Distance						Offset Well Error:	0 00 usft
Agasured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (*)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Eilipses (usft)	Separation (usft)	Factor		
10,100 00	9,229 96	10,466 34	9,464.79	26 30	28.43	179.95	-661.52	30.81	234 83	199.07	35 76	6 567		
10,200.00	9,229.96	10,566.34	9,464.80	27 14	28.49	179.96	-761.52	31 04	234.84	198 46	36.38	6.456		
10,300 00	9,229 97	10,666.34	9,464.81	28.05	28.54	179.96	-861 52	31 28	234 84	197 79	37.05	6.338		
10,400 00	9,229.97	10,766,34	9,464.81	29.04	29 09	179.96	-961.52	31 51	234 85	197.07	37.78	6.217		
10,500.00	9,229.97	10,866 34	9,464 82	30.08	30 06	179 96	-1,061.52	31 74	234 85	196.30	38 55	6 091		
10,600 00	9,229.97	10,966.34	9,464 82	31.18	31.09	179.96	-1,161.52	31 98	234 86	195.48	39 38	5.964		
10,700 00	9,229 97	11,066.34	9,464 83	32.33	32.18	179.96	-1,261.52	32 21	234 86	194.61	40 25	5.836		
10.800 00	9,229.97	11,166 34	9,464 84	33.52	33.31	179 96	-1,361.52	32 45	234 87	193.71	41 16	5.707		
10.900.00	9,229 97	1,266.34	9,464.84	34.75	34 49	179 96	-1,461 51	32 68	234 87	192 76	42 11	5.578		
11,000.00	9,229.97	11,366.34	9,464 85	36.02	35 7 1	179 97	-1,561 51	32 9 2	234 87	191.78	43.09	5.451		
11,100 00	9,229 97	11,466.34	9.464 85	37.32	36.96	179 97	-1,661 51	33 15	234 88	190 77	44 11	5.325		
11.200.00	9,229.98	11,566 34	9,464 86	38.64	38.25	179 97	-1,761.51	33.38	234.88	189 72	45 16	5.201		
11,300.00	9,229.98	11,666.34	9,464 87	40 00	39.57	179 97	-1,861.51	33.62	234.89	188 65	46.24	5.080		
11,400.00	9,229 98	11,766.34	9,464 87	41.38	40 91	179 97	-1,961 51	33.85	234 89	187 55	47 35	4.961		
11.500.00	9,229.98	11,866.34	9.464.88	42 77	42 27	179 97	-2,061 51	34.09	234 90	186 42	48.48	4 845		
11,600.00	9,229 98	11,966 34	9,464 88	44 19	43.66	179 97	-2,161 51	34.32	234 90	185 26	49.64	4.732		
11,700.00	9,229 98	12,066 34	9 464 89	45.63	45 07	179 97	-2,261 51	34.56	234.91	184.09	50.82	4.623		
11.800 00	9,229.98	12,166.34	9.464 89	47 08	46 49	179.98	-2,36151	34.79	234 91	182 90	52.02	4.516		
11,900.00	9,229 98	12,266.34	9 464 90	48 54	47.93	179 98	-2.461 51	35 02	234 92	181 68	53.24	4.413		
12,000.00	9.229 98	12,366 34	9 464 91	50 02	49 38	179 98	-2,561 51	35.26	234 92	180 45	54.47	4 3 1 3		
12,100.00	9,229.98	12,466.34	9 464 91	51 51	50.85	179.98	-2,661.51	35 49	234.93	179 20	55.73	4.216		
12,200.00	9,229.99	12,566 34	9 464 92	53 01	52.33	179 98	-2,761.51	35 73	234 93	177 93	57 00	4 122		
12,300 00	9,229.99	12,666 34	9,464.92	54 52	53.82	179 98	-2,861.51	35 96	234 94	176 66	58.28	4.031		
12,400.00	9,229 99	12,766.34	9,464.93	56 04	55.33	179 98	-2.961.51	36.20	234 94	175 36	59.58	3.943		
12,500 00	9.229.99	12,866.34	9,464 94	57 57	56 84	179 99	-3,061 51	36 43	234 95	174 06	60 89	3.859		
12,600.00	9.229.99	12.966 34	9,464 94	59.11	58.36	179 99	-3,161.51	36 66	234 95	172 74	62.21	3.777		
12,700.00	9.229.99	13,066.34	9.464 95	60.65	59.89	179 99	-3.261 51	36 90	234 96	171 41	63 55	3.697		
12,800.00	9,229.99	13,166.34	9,464 95	62.20	61.42	179 99	-3,361.51	37 13	234.96	170 07	64 89	3.621		
12,900 00	9,229.99	13.266 34	9,464 96	63 76	62 97	179 99	-3,461.51	37 37	234 97	168 72	66 25	3 547		
13,000 00	9,229 99	13,365.34	9,464 97	65.32	64.52	179.99	-3,561 51	37 60	234 97	167 36	67 61	3.4/5		
13,100 00	9,229.99	13,466 34	9,464 97	66 89	66 07	179 99	-3.661 51	37 84	234 98	165 99	68 98	3.406		
13,200 00	9.230.00	13,566 34	9,464.98	68 46	67 63	179.99	-3,761 51	38 07	234 98	164 62	70 36	3 340		
13,300 00	9,230.00	13,666.34	9,464 98	70.04	69 20	180 00	-3,861 51	38 31	234 99	163.23	71 75	3 275		
13,400 00	9.230 00	13,766.34	9,464 99	71.62	70.77	180 00	-3,961 51	38 54	234 99	161 84	73 15	3.213		
13,500 00	9,230 00	13,866 34	9.464 99	73 21	72.35	180.00	-4,061 51	38 77	235 00	160 44	74 55	3 152		
13,596.48	9,230 00	13,962.82	9.465.00	74.74	73 87	180.00	-4,157 99	39 00	235 00	159.09	75 91	3.096		



Anticollision Report



Company:

Well Error:

Matador Resources Eddy County, NM

Project: Reference Site:

Cueva De Oro Fed (111-121-131-201)

Site Error: Reference Well: 0.00 usft No. 131H 0.00 usft

Reference Wellbore Reference Design:

ОН

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method: Output errors are at

Database: Offset TVD Reference: Well No. 131H

well @ 3297.50usft well @ 3297.50usft

Grid

Minimum Curvature

2.00 sigma WellPlanner1 Offset Datum

Reference Depths are relative to well @ 3297.50usft

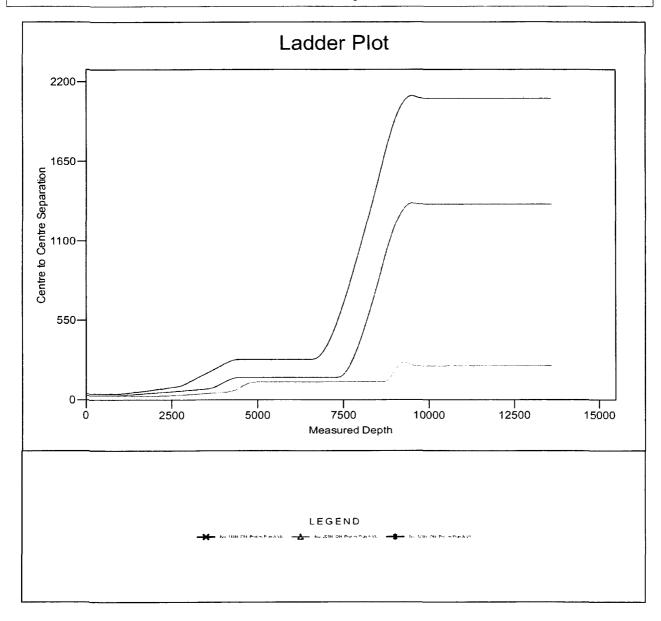
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: No. 131H

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

Grid Convergence at Surface is: 0.13°





Anticollision Report



Company:

Matador Resources

Project: Reference Site: Eddy County, NM

Site Error:

Cueva De Oro Fed (111-121-131-201)

Reference Well: Well Error:

0.00 usft No. 131H 0.00 usft

Reference Wellbore Reference Design:

Prelim Plan A

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well No. 131H well @ 3297.50usft well @ 3297.50usft

North Reference:

Survey Calculation Method:

Output errors are at Database:

Minimum Curvature 2.00 sigma

WellPlanner1

Offset TVD Reference:

Offset Datum

Reference Depths are relative to well @ 3297.50usft

Offset Depths are relative to Offset Datum

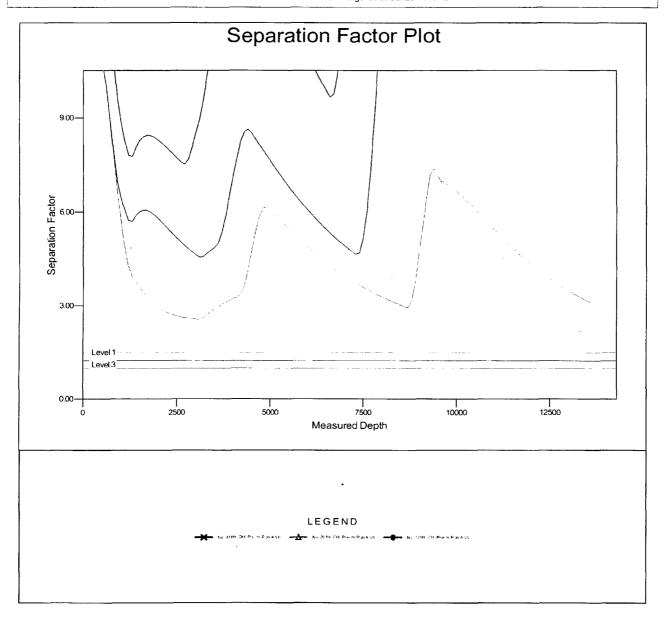
Central Meridian is 104° 20' 0.000 W

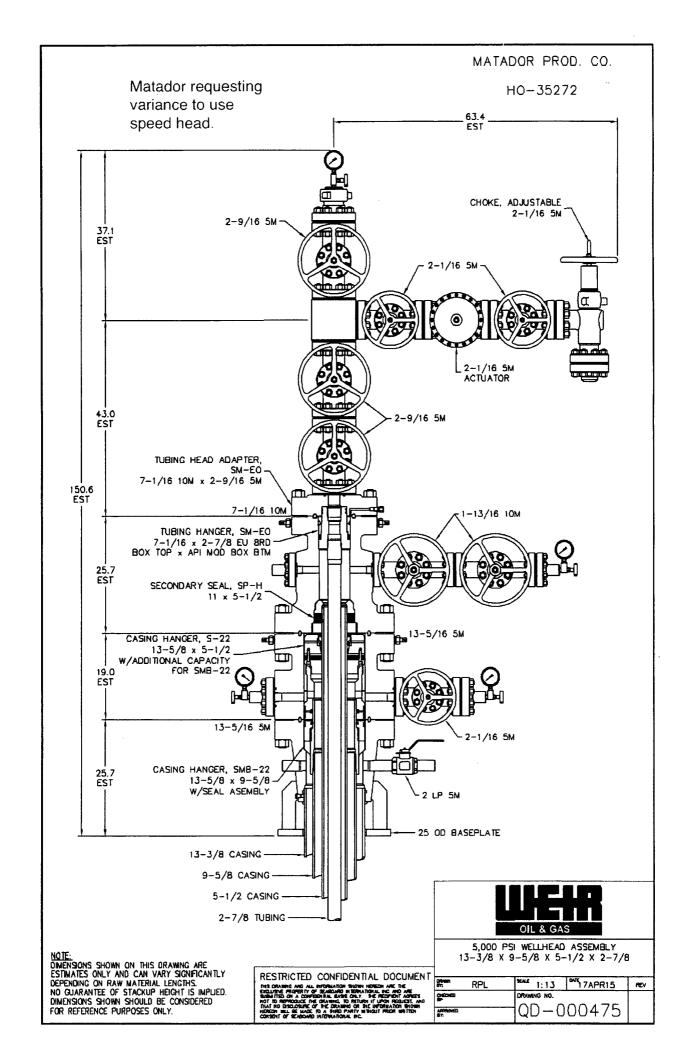
Coordinates are relative to: No. 131H

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

Grid

Grid Convergence at Surface is: 0.13°





Technical Specifications

Connection Type:

Size(O.D.):

Weight (Wall):

Grade:

DWC/C-IS PLUS Casing

5-1/2 in

20.00 lb/ft (0.361 in)

VST P110 EC

standard

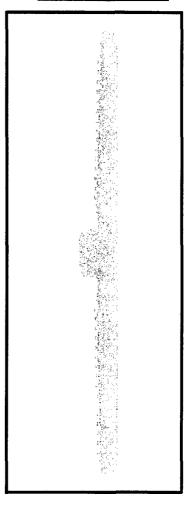
VST P110 EC 125,000 135,000	Material Grade Minimum Yield Strength (psi) Minimum Ultimate Strength (psi)				
	Pipe Dimensions				
5.500	Nominal Pipe Body O.D. (in)				
4.778	Nominal Pipe Body I.D.(in)				
0.361	Nominal Wall Thickness (in)				
20.00	Nominal Weight (lbs/ft)				
19.83	Plain End Weight (lbs/ft)				
5.828	Nominal Pipe Body Area (sq in)				
	Pipe Body Performance Properties				
729,000	Minimum Pipe Body Yield Strength (lbs)				
12,090	Minimum Collapse Pressure (psi)				
14,360	Minimum Internal Yield Pressure (psi)				
13,100	Hydrostatic Test Pressure (psi)				
	Connection Dimensions				
6.300	Connection O.D. (in)				
4.778	Connection I.D. (in)				
4.653	Connection Drift Diameter (in)				
4.13	Make-up Loss (in)				
5.828	Critical Area (sq in)				
100.0	Joint Efficiency (%)				
	Connection Performance Properties				
729,000	Joint Strength (lbs)				
26,040	Reference String Length (ft) 1.4 Design Factor				
728,000	API Joint Strength (lbs)				
729,000	Compression Rating (lbs)				
12,090	API Collapse Pressure Rating (psi)				
14,360	API Internal Pressure Resistance (psi)				
104.2	Maximum Uniaxial Bend Rating [degrees/100 ft]				
	Appoximated Field End Torque Values				
16,600	Minimum Final Torque (ft-lbs)				
40.400	* * · · · · · · · · · · · · · · · · · ·				

Maximum Final Torque (ft-lbs)
Connection Yield Torque (ft-lbs)



VAM USA 4424 W. Sam Houston Pkwy. Suite 150 Houston, TX 77041 Phone: 713-479-3200 Fax: 713-479-3234

E-mail: VAMUSAsales@vam-usa.com



For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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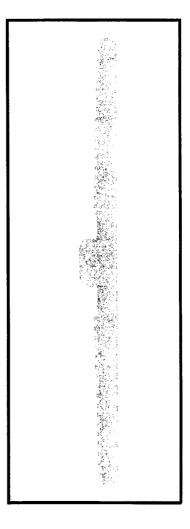
19,100

21,600



DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- DWC connections will accommodate API standard drift diameters.



Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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DRILL PLAN PAGE 1

Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

Drilling Program

1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Quaternary	000	000	water
Salado/Salt	440	440	salt
Yates	1210	1210	gypsum
Seven Rivers	1525	1527	dolomite
Capitan Reef	1610	1611	water
Cherry Canyon	3080	3100	hydrocarbons
Brushy Canyon	4320	4327	hydrocarbons
Bone Spring Lime	5910	5917	hydrocarbons
1 st Bone Spring Carbonate	6565	6577	hydrocarbons
1 st Bone Spring Sand	7005	7012	hydrocarbons
2 nd Bone Spring Carbonate	7285	7287	hydrocarbons
2 nd Bone Spring Sand	7745	7763	Hydrocarbons
3 rd Bone Spring Carbonate	8070	8100	hydrocarbons
3 rd Bone Spring sand	8880	8889	hydrocarbons & goal
TD	9230	13596	hydrocarbons

2. NOTABLE ZONES

Third Bone Spring sand is the goal for this well. Hole will extend south of the last perforation point to allow for pump installation. All perforations will be ≥ 330 ' from the dedication perimeter. A windmill is $\frac{1}{4}$ mile north, but it is not in the State Engineer's database. Closest water well (C 03265) in the database is 5644' west. Depth to water was 52' in this now dry 89' deep well.



Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

3. PRESSURE CONTROL

Matador requests a variance for a 2000-psi annular to be installed after running 20" surface casing.

After 20" surface casing, a BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be installed. The BOP will be used below intermediate casing 1 to TD. See attached BOP and choke manifold diagrams.

An accumulator complying with Onshore Order 2 requirements for the BOP stack pressure rating will be present. Rotating head will be installed as needed.

Pressure tests will be conducted before drilling out from under all casing strings. BOP will be inspected and operated as required by Onshore Order 2. Kelly cock and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position.

A third party company will test the BOPs.

Intermediate 1 casing pressure tests will be made to 250 psi low and 2000 psi high. Intermediate 2 casing pressure tests will be made to 250 psi low and 3000 psi high. Annular preventer will be tested to 250 psi low and 2500 psi high on the intermediate 1 casing and tested to 250 psi low and 2500 psi high on the intermediate 2 casing. In the case of running a speed head with landing mandrel for 9.625" casing, initial intermediate 1 casing test pressures will be 250 psi low and 3000 psi high, with wellhead seals tested to 5000 psi once the 9.625" casing has been landed and cemented. Matador requests a variance to use a speed head. Speed head diameter range is 13.375" x 9.625" x 5.5" x 2.875".

Matador requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. If the specific hose is not available, then one of equal or higher rating will be used.



Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

4. CASING & CEMENT

All casing will be API and new.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	Collapse	Burst	Tension
26"	0′ - 400'	0′ - 400'	20"	94	K-55	ВТС	1.125	1.125	1.8
17.5"	0′ - 1220'	0' - 1220'	13.375"	54.5	J-55	втс	1.125	1.125	1.8
12.25"	0′ - 3100′	0' - 3100'	9.625"	40	J-55	втс	1.125	1.125	1.8
8.75"	0′ - 13596'	0′ – 13596′	5.5"	20	P-110	DWC/C	1.125	1.125	1.8

Casing Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend	
Surface	Tail	873	1.38	1204	14.8	Class C + 5% NaCl + LCM	
TOC = GL		1	00% Exces	SS	Centralizers per Onshore Order 2.III.B.1f		
Intermediate 1	Lead	528	2.09	1103	12.6	Class C + Bentonite + 1% CaCl ₂ + 8% NaCl + LCM	
	Tail	322	1.38	444	14.8	Class C + 5% NaCl + LCM	
TOC = GL		1	00% Exces	SS	2 on btn	n jt, 1 on 2nd jt, 1 every 4th jt to GL	
Intermediate 2	Lead	497	2.48	1232	11.9	Class C + Bentonite + 2% CaCl ₂ + 3% NaCl + LCM	
	Tail	308	1.26	388	14.4	Class C + 5% NaCl +	
TOC = GL	TOC = GL		100% Excess			n jt, 1 on 2nd jt, 1 every 4th jt to GL	
Production	Lead	810	2.25	1822	11.5	TXI + Fluid Loss + Dispersant + Retarder + LCM	
	Tail	1461	1.38	2016	13.2	TXI + Fluid Loss + Dispersant + Retarder + LCM	
TOC = 2100'		35% Excess			2 on btm jt, 1 on 2nd jt, 1 every other jt to top of tail cement (1000' above TOC)		



Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

5. MUD PROGRAM

An electronic Pason mud monitoring system complying with Onshore Order 1 will be used. All necessary mud products (barite, bentonite, LCM) for weight addition and fluid loss control will be on location at all times. Mud program is subject to change due to hole conditions. A closed loop system will be used.

Туре	Interval	lb/gal	Viscosity	Fluid Loss
fresh water spud	0' - 400'	8.4	28	NC
brine water	400' - 1220'	10.0	30-32	NC
fresh water	1220′ – 3100′	8.4 - 8.6	28-30	NC
fresh water & cut brine	3100' - 13596'	9.0	30-32	NC

6. CORES, TESTS, & LOGS

No core or drill stem test is planned.

A 2-person mud-logging program will be used from ≈1220' to TD.

No electric logs are planned at this time. GR will be collected through the MWD tools from intermediate 2 casing to TD. CBL with CCL will be run as far as gravity will let it fall to TOC.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 4615 psi. Expected bottom hole temperature is ≈ 135 ° F.

In accordance with Onshore Order 6, Matador does not anticipate that there will be enough H_2S from the surface to the Bone Spring to meet the BLM's minimum requirements for the submission of an " H_2S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since Matador has



DRILL PLAN PAGE 5

Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

an H_2S safety package on all wells, an " H_2S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take ≈ 3 months to drill and complete the well.





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



APD ID: 10400012359

Operator Name: MATADOR PRODUCTION COMPANY

Well Name: CUEVA DE ORO FEDERAL

Well Type: OIL WELL

Submission Date: 03/23/2017

Well Number: 131H

Well Work Type: Drill

Highlighted data reflects the most

recent changes

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Cueva_131H_Road_Map_07-20-2017.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: No new road will be built. The pad overlaps a reclaimed road that will be upgraded. The 175' of reclaimed road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 1'. No culvert, cattle guard, or vehicle turn out is needed.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Cueva_131H_Well_Map_03-15-2017.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description:

Production Facilities map:

Cueva 131H Production Diagram 03-15-2017.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: CAMP USE, DUST CONTROL, Water source type: GW WELL

INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE

CASING

Describe type: Source longitude:

Source latitude:

Source datum:

Water source permit type: WATER RIGHT

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 15000 Source volume (acre-feet): 1.9333965

Source volume (gal): 630000

Water source and transportation map:

Cueva 131H Water Source Map 03-15-2017.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: NM One Call (811) will be notified before construction starts. Top 6" of soil and brush will be stockpiled east of the pad. Pipe racks will be to the north. A closed loop drilling system will be used. Caliche will be hauled from an existing Constructors, Inc. pits on private land in NWNE 34-21s-27e and S2 13-22s-26e. **Construction Materials source location attachment:**

Cueva_131H_Water_Source_Map_03-15-2017.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to CRI's state approved (NM-01-0006) disposal site. Human waste will be disposed of in chemical toilets and hauled to the Carlsbad wastewater treatment plant.

Amount of waste: 15000 barrels

Waste disposal frequency: Daily

Safe containment description: Steel tanks

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: Halfway NM

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) Reserve pit width (ft.)

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Cueva_131H_Well_Site_Layout_03-15-2017.pdf

Comments:

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: CUEVO DE ORO

Multiple Well Pad Number: SLOT 1

Recontouring attachment:

Cueva_131H_Recontouring_Plat_03-15-2017.pdf

Drainage/Erosion control construction: Pad moved away from Karst feature.

Drainage/Erosion control reclamation: Interim reclamation will shrink the pad 29% by removing caliche and reclaiming the east side (125' x 370'), leaving 2.59 acres for 4 wells, truck turn around, and production equipment. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with BLM's requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad and new road will be similarly reclaimed. Noxious weeds will be controlled.

Wellpad long term disturbance (acres): 2.59 Wellpad short term disturbance (acres): 3.65

Access road long term disturbance (acres): 0.12 Access road short term disturbance (acres): 0.12

Pipeline long term disturbance (acres): 0 Pipeline short term disturbance (acres): 0

Other long term disturbance (acres): 0 Other short term disturbance (acres): 0

Total long term disturbance: 2.71 Total short term disturbance: 3.77

Reconstruction method: Interim reclamation will shrink the pad 29% by removing caliche and reclaiming the east side (125' x 370'), leaving 2.59 acres for 4 wells, truck turn around, and production equipment. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with BLM's requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is plugged, then the remainder of the pad and new road will be similarly reclaimed. Noxious weeds will be controlled.

Topsoil redistribution: Evenly

Soil treatment: None planned

Existing Vegetation at the well pad:

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road:

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline:

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Operator Name: MATADOR	PRODUCTION COMPA	NY
Well Name: CUEVA DE ORC) FEDERAL	Well Number: 131H
Non native seed used? NO		
Non native seed description:	:	
Seedling transplant description	ion:	
Will seedlings be transplante	ed for this project? NO	
Seedling transplant descripti	ion attachment:	
Will seed be harvested for us	se in site reclamation?	NO
Seed harvest description:		
Seed harvest description atta	achment:	
Seed Management	t	
Seed Table		
Seed type:		Seed source:
Seed name:		
Source name:		Source address:
Source phone:		
Seed cultivar:		
Seed use location:		
PLS pounds per acre:		Proposed seeding season:
Seed Su	ımmary	Total pounds/Acre:
Seed Type	Pounds/Acre	
Seed reclamation attachmen	t:	
Operator Contact/F	Responsible Offic	ial Contact Info
First Name:		Last Name:
Phone:		Email:
Seedbed prep:		
Seed BMP:		

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

Existing invasive species treatment attachment:

Weed treatment plan description: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

Well Name: CUEVA DE ORO FEDERAL Well Number: 131H

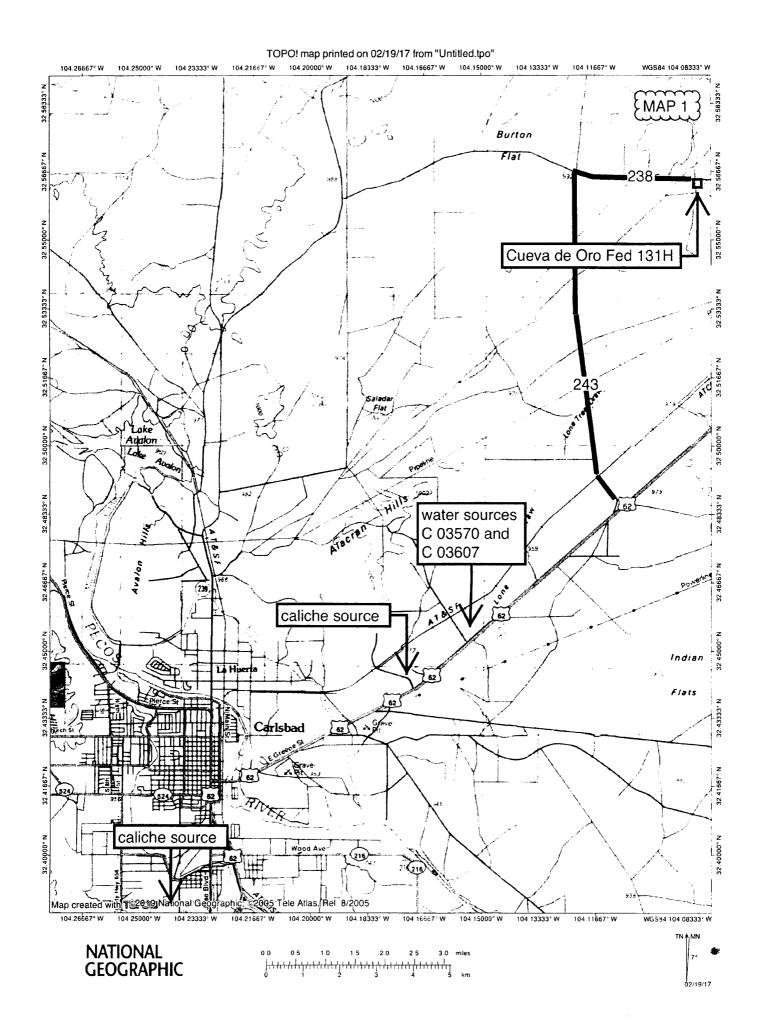
SUPO Additional Information: See revised Road Map to address 10-day deficiency letter; revised road map indicated the road is 2,25' longer than originally submitted. (See revised General SUPO attachment) No pipeline or power line plans have been formulated to date.

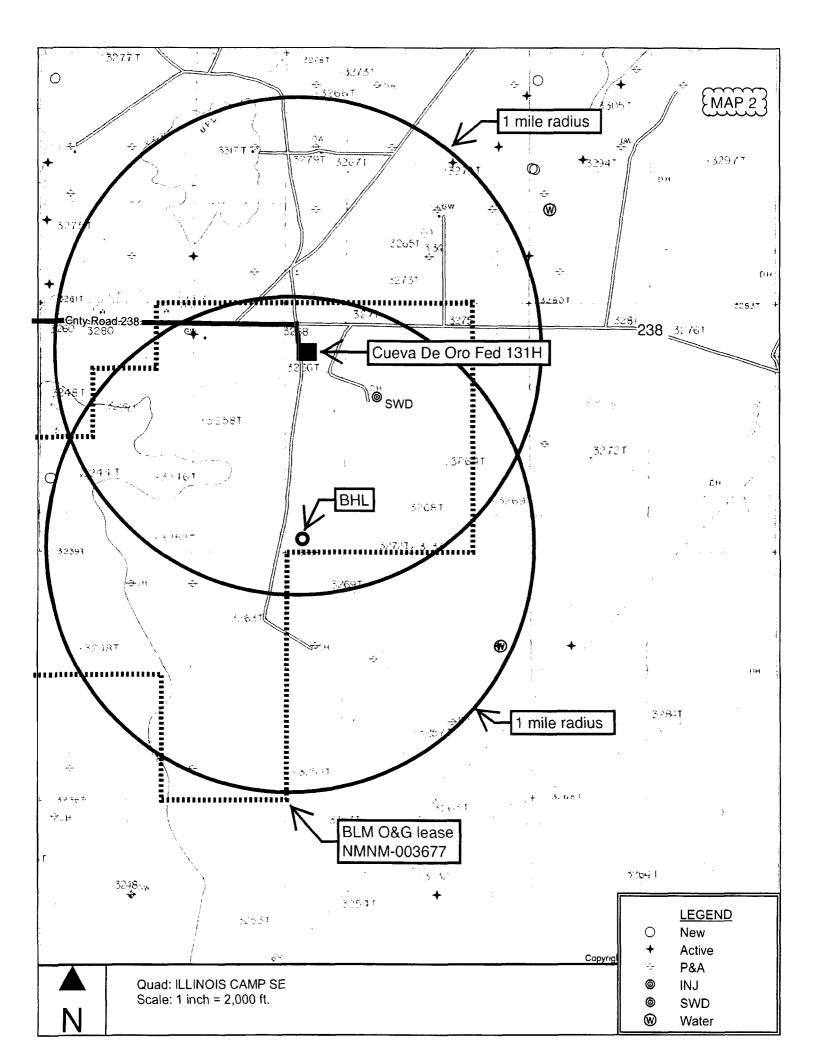
Use a previously conducted onsite? YES

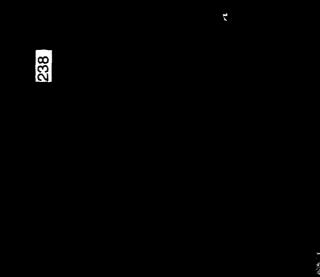
Previous Onsite information: On site inspection was held with Vance Wolf, Cassie Brooks, and Stan Allison (both BLM) on August 18, 2016.

Other SUPO Attachment

Cueva_131H_General_SUPO_07-20-2017.pdf







upgrade 177.25' existing road

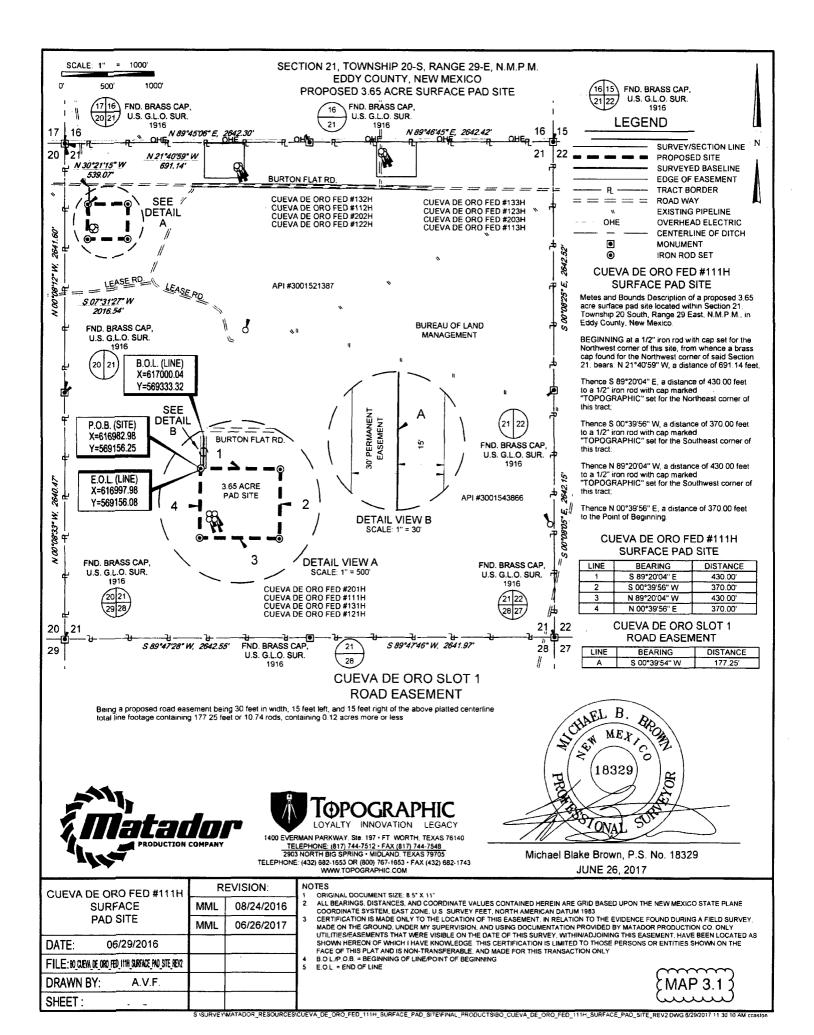
238

Cueva de Oro Fed 131H

\$2 33,806, 104 05,267

MAP 3.0

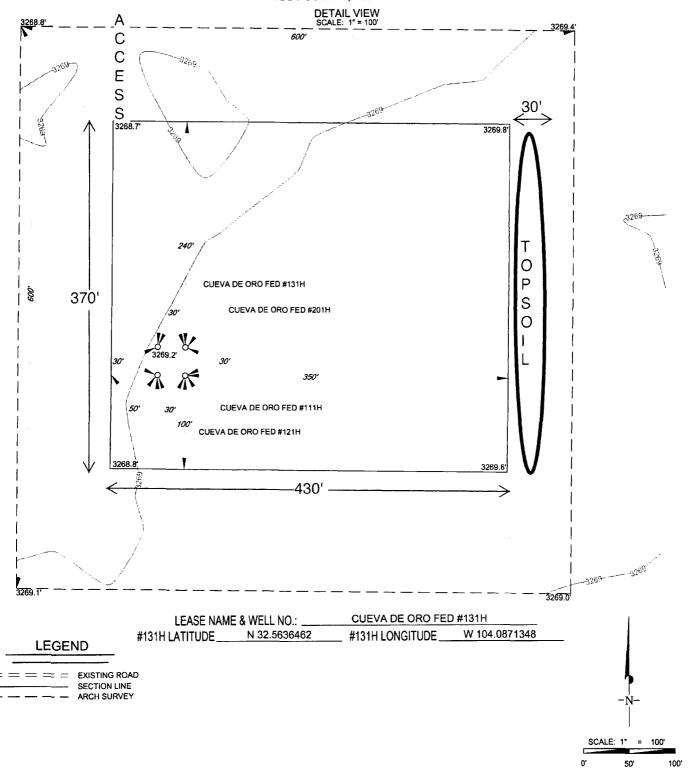
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MAP 4

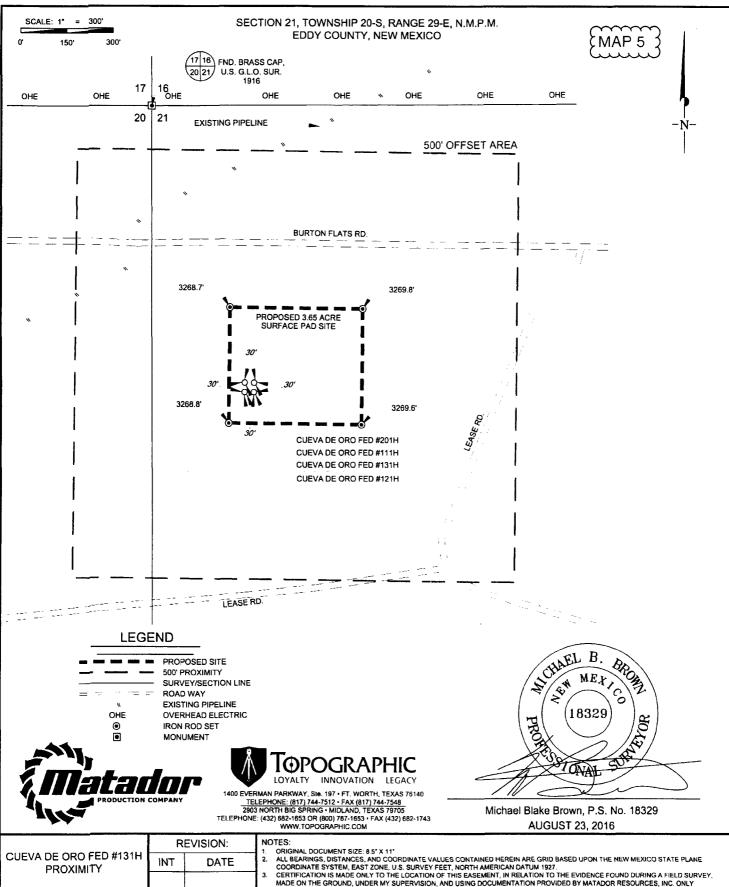
SECTION 21, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



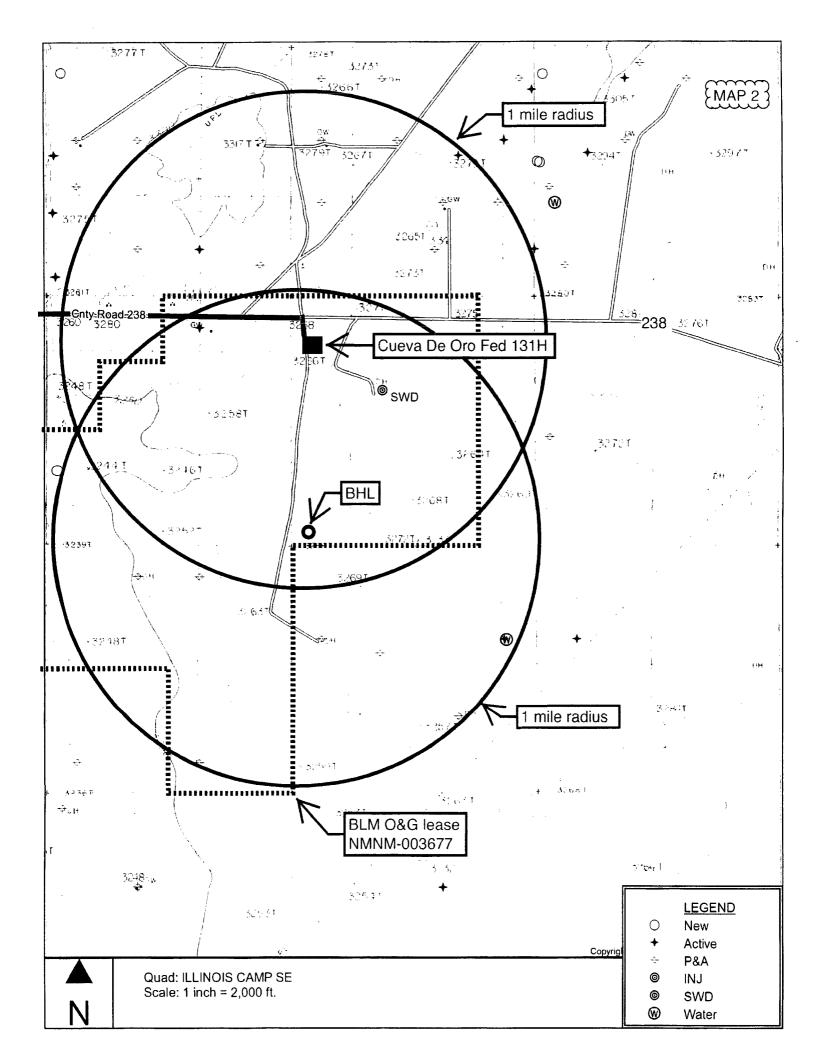
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY. AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.





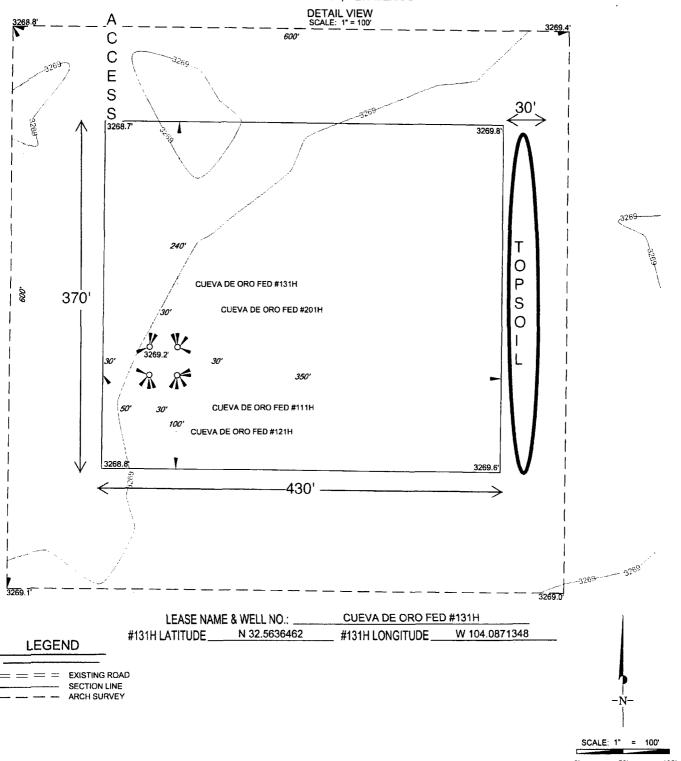
l	REVISION:		NOTES: 1. ORIGINAL DOCUMENT SIZE: 8.5° X 11°						
CUEVA DE ORO FED #131H PROXIMITY	INT	DATE	 ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY. 						
			MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS						
DATE: 08/23/16			SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.						
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EMAP 4

SECTION 21, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY MATADOR PRODUCTION COMPANY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



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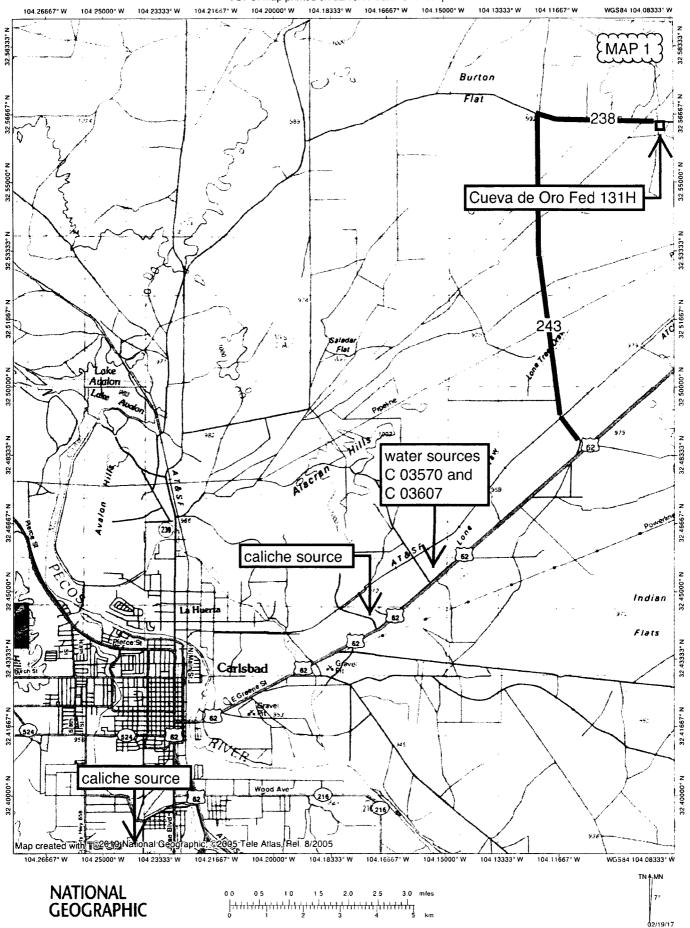
TELEPHONE: (817) 744-7512 • FAX. (817) 744-7548

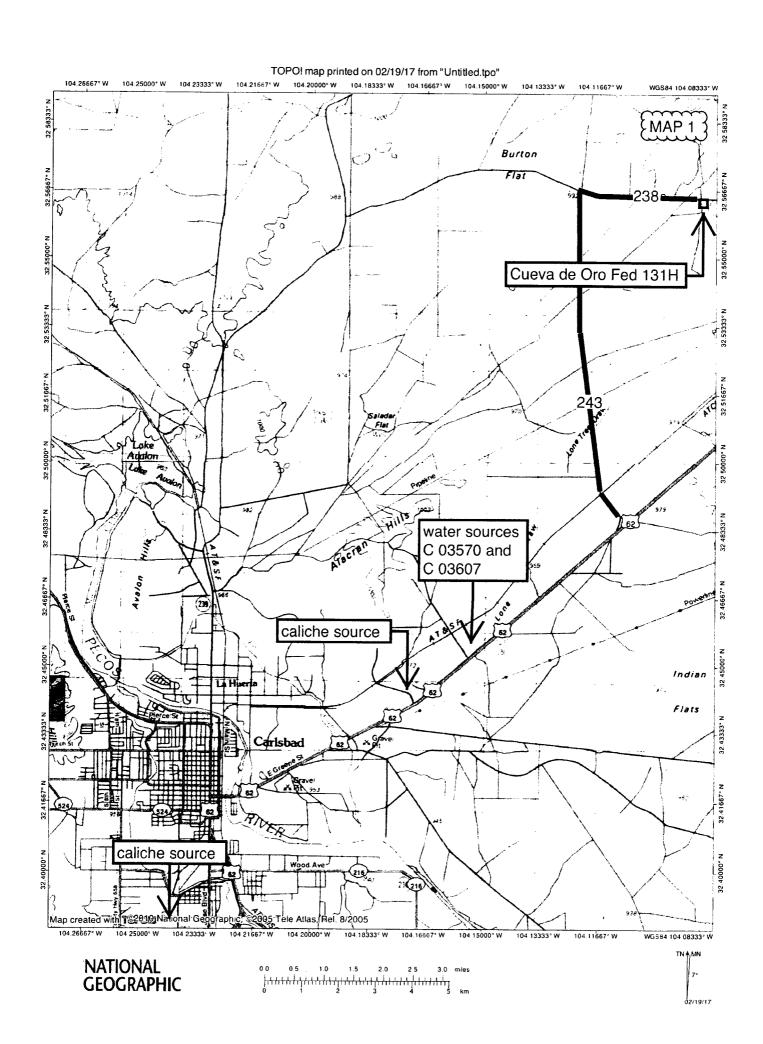
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705

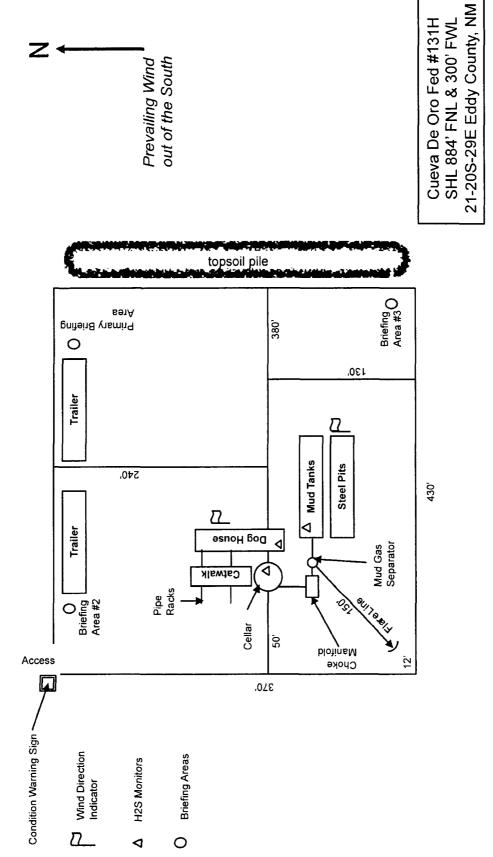
TELEPHONE: (432) 682-1653 OR (800) 757-1653 • FAX. (432) 682-1743

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TOPO! map printed on 02/19/17 from "Untitled.tpo"





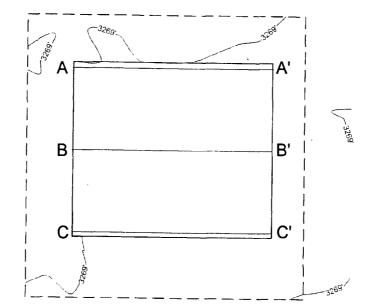




SCALE: 1" 100 200

SECTION 20, TOWNSHIP 20-S, RANGE 29-E, N.M.P.M. **EDDY COUNTY, NEW MEXICO**

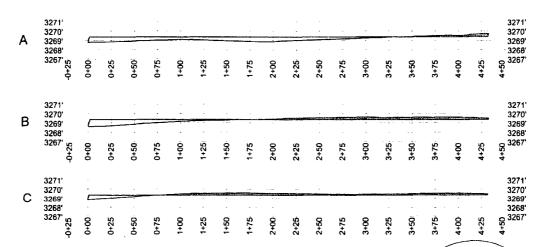
MAP 5



TOP OF PAD ELEVATION: 3269.4

CUT SLOPE: 33.33% 3.000:1 18.43° FILL SLOPE: 33.33% 3.000:1 18.43° BALANCE TOLERANCE (C.Y.): 0.00 **CUT SWELL FACTOR: 1.00** FILL SHRINK FACTOR: 1.00

PAD EARTHWORK VOLUMES CUT: 21,634.9 C.F., 801.29 C.Y. FILL: 21,634.8 C.F., 801.29 C.Y. AREA: 160636.3 SQ FT., 3.688 ACRES

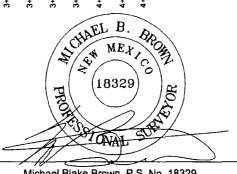


Horizontal Scale = 1:100 Vertical Scale = 1:10





1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140 TELEPHONE: (817) 744-7512 • FAX (817) 744-7548 TEXAS FIRM REGISTRATION NO. 10042504 WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329 **AUGUST 25, 2016**

Field note description of even date accompanies this plat.

	R	EVISION:
CUEVA DE ORO FED #111H SURFACE PAD SITE PROFILE	MML	08/25/2016
OUT NOT THE OTHER TROPICE		
DATE: 06/23/2016		
FILE: CO CUEVA DE ORO FED HITH SURFACE PAD SITE CUT FIL REVI		
DRAWN BY: A.V.F.		
SHEET: 1 OF 1		

ORIGINAL DOCUMENT SIZE: 8.5° X 11°

ORIGINAL DOCUMENT SIZE: 8.5° X 11°

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE
COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 100 THE EVIDENCE FOUND DURING A FIELD SURVEY,
CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY,
MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY MATADOR RESOURCE COMPANY, ONLY
UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS
SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE
FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

DIUSER DATAUSTOVALLIDESKTOP/PUBLISHICUEVA DE OROICO_CUEVA_DE_ORO_FED_111P_SURFACE_PAD_SITE_CUT_FILL_REV1.DWG 8/27/2016 12:32:19 PM jair

Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

Surface Use Plan

1. ROAD DIRECTIONS & DESCRIPTIONS (See MAPS 1 – 4)

From the junction of US 285 and Us 62/180 in Carlsbad...
Go East 9.1 miles on paved US 62/180 to the equivalent of Mile Post 44.15
Then turn left and go North 5.8 miles on paved County Road 243
Then turn sharply right and go East 2.0 miles on paved County Road 238
Then turn right and go South 177.25' on a reclaimed road to the proposed pad

Non-county roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed. Caliche will be hauled from Constructors, Inc. existing pits on private land in NWNE 34-21s-27e and S2 13-22s-26e.

2. ROAD TO BE BUILT OR UPGRADED (See MAPS 3 & 4)

No new road will be built. The pad overlaps a reclaimed road that will be upgraded. The 177.25' of reclaimed road will be crowned and ditched, have a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30'. Maximum grade = 1%. Maximum cut or fill = 1'. No culvert, cattle guard, or vehicle turn out is needed.

3. EXISTING WELLS (See MAP 2)

Existing oil, gas, water, disposal, and P & A wells are within a mile. No injection well is within a mile.

4. PROPOSED PRODUCTION FACILITIES

A tank battery will be built on the east side of the pad. Pipeline and power line plans have not been finalized.

5. WATER SUPPLY (See MAPS 1 – 4)

Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

Water will be trucked from two water wells (C 03570 and C 03607) on private land in NENENE and SENENE 24-21s-27e.

6. CONSTRUCTION MATERIALS & METHODS (see MAP 4)

NM One Call (811) will be notified before construction starts. Top ≈6" of soil and brush will be stockpiled east of the pad. Pipe racks will be to the north. A closed loop drilling system will be used. Caliche will be hauled from an existing Constructors, Inc. pits on private land in NWNE 34-21s-27e and S2 13-22s-26e.

7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to the Eddy County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to CRI's state approved (NM-01-0006) disposal site. Human waste will be disposed of in chemical toilets and hauled to the Carlsbad wastewater treatment plant.

8. ANCILLARY FACILITIES

There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, or mud logger.

9. WELL SITE LAYOUT

See Rig Diagram for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. RECLAMATION

Interim reclamation will shrink the pad ≈29% by removing caliche and reclaiming the east side (125' x 370'), leaving 2.59 acres for 4 wells, truck turn around, and production equipment. Disturbed areas will be contoured to match pre-construction grades. Soil and brush will be evenly spread over disturbed areas. Disturbed areas will be seeded in accordance with BLM's requirements. Enough stockpiled topsoil will be retained to cover the remainder of the pad when the wells are plugged. Once the last well is

Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

plugged, then the remainder of the pad and new road will be similarly reclaimed. Noxious weeds will be controlled.

11. SURFACE OWNER

All construction will be on BLM. Land use:

30' x 177.25' road = 0.12 acre
+ 370' x 430' pad = 3.65 acres
3.77 acres short term
- 1.06 acres interim reclamation
2.71 acres long term (0.12 road + 2.59 pad)

12. OTHER INFORMATION

On site inspection was held with Vance Wolf, Cassie Brooks, and Stan Allison (both BLM) on August 18, 2016.

Matador paid the Permian Basin programmatic agreement archaeology fund.

CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this <u>25th</u> day of <u>February</u>, <u>2017</u>.

Matador Production Company Cueva de Oro Fed 131H SHL 884' FNL & 300' FWL Sec. 21 BHL 240' FSL & 330' FWL Sec. 21 T. 20 S., R. 29 E., Eddy County, NM

(505) 466-8120

FAX: (505) 466-9682

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Field representative will be:

Sam Pryor, Senior Staff Landman Matador Production Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240

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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: PWD disturbance (acres): Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Injection well mineral owner:

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:	1
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Unlined pit precipitated solids disposal schedule:	
Unlined pit precipitated solids disposal schedule attachment:	
Unlined pit reclamation description:	
Unlined pit reclamation attachment:	
Unlined pit Monitor description:	
Unlined pit Monitor attachment:	
Do you propose to put the produced water to beneficial use?	
Beneficial use user confirmation:	
Estimated depth of the shallowest aquifer (feet):	
Does the produced water have an annual average Total Disso that of the existing water to be protected?	lved Solids (TDS) concentration equal to or less than
TDS lab results:	
Geologic and hydrologic evidence:	
State authorization:	
Unlined Produced Water Pit Estimated percolation:	
Unlined pit: do you have a reclamation bond for the pit?	
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
•	
Would you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	

Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other	
Would you like to utilize Other PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Other PWD discharge volume (bbl/day):	
Other PWD type description:	
Other PWD type attachment:	
Have other regulatory requirements been met?	
Other regulatory requirements attachment:	



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Info Data Report 02/14/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001079

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: