

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-53468
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
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)



Approval Date: 08/09/2024

MILLIE MILE 13-24 FED COM 601H

APD - Geology COAs (Not in Potash or WIPP)

- For at least one well per pad (deepest well within initial development preferred) the record of the drilling rate (ROP) along with the Gamma Ray (GR) and Neutron (CNL) well logs run from TVD to surface in the vertical section of the hole shall be submitted to the BLM office as well as all other logs run on the full borehole 30 days from completion. Any other logs run on the wellbore, excluding cement remediation, should also be sent. Only digital copies of the logs in .TIF or .LAS formats are necessary; paper logs are no longer required. Logs shall be emailed to blm-cfo-geology@doimspp.onmicrosoft.com. Well completion report should have .pdf copies of any CBLs or Temp Logs run on the wellbore.
- Exceptions: In areas where there is extensive log coverage (in particular the salt zone adjacent to a pad), Operators are encouraged to contact BLM Geologists to discuss if additional GR and N logs are necessary on a pad. Operator may request a waiver of the GR and N log requirement due to good well control or other reasons to be approved by BLM Geologist prior to well completion. A waiver approved by BLM must be attached to completion well report to satisfy COAs.
- The top of the Rustler, top and bottom of the Salt, and the top of the Capitan Reef (if present) are to be recorded on the Completion Report.

Please be aware:

- Abnormal pressures may be encountered upon penetrating the 3rd Bone Spring Sandstone and all subsequent formations.
- H₂S has been reported from multiple formations within one mile of the proposed project. Measurements up to 600ppm were recorded from the Seven Rivers, Bone Spring, and Morrow.

Questions? Contact Chris Armistead, BLM Geologist at 575-234-5715 or carmistead@blm.gov

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Artec, NM 87410
District IV
1220 S. St Francis Dr., NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-53468	² Pool Code 59500	³ Pool Name Tonto; Wolfcamp
⁴ Property Code 336234	⁵ Property Name MILLIE MILE 13-24 FED COM	
⁷ OGRID No. 332544 192X76	⁸ Operator Name PERKINS OPERATIONS PBEX Operations, LLC	⁹ Elevation 3,705'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	19 S	33 E		204'	NORTH	175'	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	24	19 S	33 E		10'	SOUTH	440'	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Mikah Thomas* Date: **5/13/24**

Printed Name: **Mikah Thomas** Date:

Email Address: **mikah@pbex.com** Date:

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date: **04/26/2024**

MARK J. MURRAY
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR
12177

MARK J. MURRAY P.L.S. NO. 12177

Intent ☒ As Drilled ☐

API #

Operator Name: EGL RESOURCES INC.	Property Name: MILLIE MILE 13-24 FED COM	Well Number #601H
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Kick Off Point (KOP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 204	From N/S NORTH	Feet 175	From E/W WEST	County LEA
Latitude 32.66691288					Longitude -103.62458125				NAD 83

First Take Point (FTP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 100	From N/S NORTH	Feet 440	From E/W WEST	County LEA
Latitude 32.66719682					Longitude -103.62371911				NAD 83

Last Take Point (LTP)

UL M	Section 24	Township 19 S	Range 33 E	Lot	Feet 100	From N/S SOUTH	Feet 440	From E/W WEST	County LEA
Latitude 32.63870510					Longitude -103.62379672				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number
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KZ 06/29/2018

Intent ☒ As Drilled ☐

API #

Operator Name: EGL RESOURCES INC.	Property Name: MILLIE MILE 13-24 FED COM	Well Number #601H
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Kick Off Point (KOP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 204	From N/S NORTH	Feet 175	From E/W WEST	County LEA
Latitude 32.66679039					Longitude -103.62408512			NAD 27	

First Take Point (FTP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 100	From N/S NORTH	Feet 440	From E/W WEST	County LEA
Latitude 32.66707431					Longitude -103.62322300			NAD 27	

Last Take Point (LTP)

UL M	Section 24	Township 19 S	Range 33 E	Lot	Feet 100	From N/S SOUTH	Feet 440	From E/W WEST	County LEA
Latitude 32.63858254					Longitude -103.62330170			NAD 27	

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number
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KZ 06/29/2018

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

OPERATOR'S NAME:	EGL Resources Incorporated
LEASE NO.:	NMNM24489
LOCATION:	Section 13, T.19 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico ▼

WELL NAME & NO.:	Millie Mile 13-24 Fed Com 601H
BOTTOM HOLE FOOTAGE	10'S & 440'/W
ATS/API ID:	ATS-24-1095
APD ID:	10400097398
Sundry ID:	N/a
Date APD Submitted:	N/a

WELL NAME & NO.:	Millie Mile 13-24 Fed Com 602H
BOTTOM HOLE FOOTAGE	10'S & 1210'/W
ATS/API ID:	ATS-24-1097
APD ID:	10400097438
Sundry ID:	N/a
Date APD Submitted:	N/a

WELL NAME & NO.:	Millie Mile 13-24 Fed Com 801H
BOTTOM HOLE FOOTAGE	10'S & 660'/W
ATS/API ID:	ATS-24-1100
APD ID:	10400097440
Sundry ID:	N/a
Date APD Submitted:	N/a

COA

H2S	Yes		
Potash	None	None	
Cave/Karst Potential	Low		
Cave/Karst Potential	☐ Critical		
Variance	☒ None	☒ Flex Hose	☒ Other
Wellhead	Conventional and Multibowl		
Other	☐ 4 String	Capitan Reef None	☐ WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry	Waste Prevention None	
Special Requirements Variance	☐ Break Testing	☐ Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Seven Rivers, Bone Springs, and Morrow** formations. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1835 feet** (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** inch in diameter.
 - 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 will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Production casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) 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. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New

Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL 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)

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke

manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - 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.
5. 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 cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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.

Long Vo (LVO) 8/5/2024



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

Operator Certification Data Report

08/15/2024

Operator

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.

NAME: MIKAH THOMAS

Signed on: 03/07/2024

Title: Regulatory Manager

Street Address: 223 WEST WALL STREET STE 900

City: MIDLAND

State: TX

Zip: 79701

Phone: (432)661-7106

Email address: MIKAH@PBEX.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data

08/15/2024

APD ID: 10400097398	Submission Date: 03/07/2024	Highlighted data reflects the most recent changes Show Final Text
Operator Name: EGL RESOURCES INCORPORATED		
Well Name: MILLIE MILE 13-24 FED COM	Well Number: 601H	
Well Type: OIL WELL	Well Work Type: Drill	

Section 1 - General

APD ID: 10400097398	Tie to previous NOS? N	Submission Date: 03/07/2024
BLM Office: Carlsbad	User: MIKAH THOMAS	Title: Regulatory Manager
Federal/Indian APD: FED	Is the first lease penetrated for production Federal or Indian? FED	
Lease number: NMNM24489	Lease Acres:	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreement:	
Agreement number:		
Agreement name:		
Keep application confidential? Y		
Permitting Agent? NO	APD Operator: EGL RESOURCES INCORPORATED	
Operator letter of		

Operator Info

Operator Organization Name: EGL RESOURCES INCORPORATED		
Operator Address: P O BOX 10886	Zip: 79702	
Operator PO Box: P O BOX 10886		
Operator City: MIDLAND	State: TX	
Operator Phone: (432)687-6560		
Operator Internet Address:		

Section 2 - Well Information

Well in Master Development Plan? NO	Master Development Plan name:	
Well in Master SUPO? NO	Master SUPO name:	
Well in Master Drilling Plan? NO	Master Drilling Plan name:	
Well Name: MILLIE MILE 13-24 FED COM	Well Number: 601H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: TONTO	Pool Name: WOLCAMP

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

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

Is the proposed well in a Helium production area? N

Use Existing Well Pad? N

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Millie Mile 13-24 Fed Com

Number: 1

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 28 Miles

Distance to nearest well: 220 FT

Distance to lease line: 199 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: 23_101303_Millie_Mile_13_24_Fed_Com_601H_C102_Supplemental_Pages_20240514064100.pdf

23_101303_Millie_Mile_13_24_Fed_Com_601H_C102_Rev_3_20240724114612.pdf

Well work start Date: 08/01/2024

Duration: 90 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 12177

Reference Datum: KELLY BUSHING

Wellbore	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	Will this well produce from this
SHL Leg #1	204	FNL	175	FW L	19S	33E	13	Aliquot NWN W	32.6669128	- 103.6245812	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 24489	3705	0	0	Y
KOP Leg #1	204	FNL	175	FW L	19S	33E	13	Aliquot NWN W	32.6687715	- 103.6237147	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 24489	- 7202	10963	10907	Y

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H

Wellbore	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	Will this well produce from this
PPP Leg #1-1	100	FNL	440	FW L	19S	33E	13	Aliquot NWN W	32.6671968	- 103.6237191	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 24489	- 7775	11863	11480	Y
PPP Leg #1-2	1320	FSL	440	FW L	19S	33E	13	Aliquot SWS W	32.6565839	- 103.6237549	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100347	- 7775	15724	11480	Y
PPP Leg #1-3	0	FNL	440	FW L	19S	33E	24	Aliquot NWN W	32.6529559	- 103.623767	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100861	- 7775	17044	11480	Y
EXIT Leg #1	10	FSL	440	FW L	19S	33E	24	Aliquot SWS W	32.6387051	- 103.6237967	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100861	- 7775	22229	11480	Y
BHL Leg #1	10	FSL	440	FW L	19S	33E	24	Aliquot SWS W	32.6384577	- 103.6237972	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100861	- 7775	22319	11480	Y



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

Drilling Plan Data Report

08/15/2024

APD ID: 10400097398

Submission Date: 03/07/2024

Highlighted data
reflects the most
recent changes

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13932793	QUATERNARY	3705	0	0	ALLUVIUM	NONE	N
13932788	RUSTLER	2140	1565	1565	ANHYDRITE, LIMESTONE, SANDSTONE	NONE	N
13932794	TOP SALT	1835	1870	1870	ANHYDRITE, SALT	NONE	N
13932784	BASE OF SALT	590	3115	3115	ANHYDRITE, SALT	NONE	N
13932804	YATES	420	3285	3305	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932795	SEVEN RIVERS	-5	3710	3730	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932796	QUEEN	-575	4280	4300	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932785	GRAYBURG	-865	4570	4570	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932786	SAN ANDRES	-1395	5100	5120	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932798	CHERRY CANYON	-1965	5670	5670	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932799	BRUSHY CANYON	-2655	6360	6360	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932800	BONE SPRING LIME	-4155	7860	7880	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932787	BONE SPRING	-4255	7960	7960	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932801	BONE SPRING 1ST	-5375	9080	9130	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932803	BONE SPRING 2ND	-5685	9390	9440	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
13932805	BONE SPRING 2ND	-5895	9600	9650	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932806	BONE SPRING 3RD	-6450	10155	10215	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13932807	BONE SPRING 3RD	-6795	10500	10580	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932789	WOLFCAMP	-7080	10785	10875	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932790	WOLFCAMP	-7185	10890	10990	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932809	WOLFCAMP	-7225	10930	11060	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 15000

Equipment: A 13.625" 10M Blowout Preventer system will be installed on a multi-bowl (speed head) wellhead with a 13.625" flanged casing spool. Top flange of casing spool will be set in a cellar below ground level. BOP system will consist of a single pipe ram on the bottom, mud cross, double pipe ram with blind rams on bottom and pipe rams on top, and annular preventer. Blowout preventer will be installed on top of the 13.375 surface casing and will remain installed to TD of the well. Wellhead, blowout preventer, and choke manifold diagram and test pressures are included.

Requesting Variance? YES

Variance request: Variance is requested to use a co-flex hose between the BOP system and choke manifold. A typical co-flex pressure test certificate is attached. An equipment specific co-flex pressure test certificate will be on site when testing the BOP.

Testing Procedure: All casing strings will be tested in accordance with 43 CFR 3172.7(b)(8). The BOP system will be isolated and tested by an independent tester to 250 psi low and 10,000 psi high for 10 minutes. per CFR 3172 requirements. If 10M system, we will test annular to 100% of WP (5,000 psi) The Surface Casing will be pressure tested to 250 psi low and 1500 psi high. Intermediate Casing will be pressure tested to 250 psi low and (.22 psi x Length Of Casing, which is equivalent to 2305.6 psi) high for 30 minutes

Choke Diagram Attachment:

PBEX_10M_Choke_Manifold_20240626084250.pdf

BOP Diagram Attachment:

PBEX_10M_BOP_Diagram_20240626084254.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	17.5	13.375	NEW	API	N	0	1835	0	1835	3705	1870	1835	J-55	54.5	OTHER - BTC	1.125	1.125	BUOY	1.6	BUOY	1.6

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

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
2	INTERMEDIATE	9.875	8.625	NEW	API	N	0	10630	0	10480	3708	-6775	10630	P-110	32	OTHER - Talon HTQ	1.125	1.125	BUOY	1.6	BUOY	1.6
3	PRODUCTION	7.875	5.5	NEW	API	N	0	22319	0	11280	3709	-7575	22319	P-110	20	OTHER - DWC/C-IS+	1.125	1.125	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- 13.375_54.5000_0.3800_J55_data_sheet_20240304204843_20240318215540.pdf
- Casing_Design_Assmpt_3_string_casing_20240514065731.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- 8.625_P110HP_TALON_HTQ_Casing_Spec_20230407121740_20240304204935_20240318215540.pdf
- Casing_Design_Assmpt_3_string_casing_20240514065715.pdf

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Casing Attachments

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- 5.5in_P110_EC_Casing_Spec_20240304205023_20240318215541.pdf
- Casing_Design_Assmpt_3_string_casing_20240304205028_20240318215541.pdf

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	1200	751	2.22	12.5	1667.3	100	Class C	Gel, Accelerator, LCM
SURFACE	Tail		1200	1835	479	1.84	13.2	882.3	100	Class C	Gel, Accelerator, LCM
INTERMEDIATE	Lead		0	9480	384	6.19	10	2374.5	60	Class C or H	Fluid Loss, Retarder, LCM, Possibly beads
INTERMEDIATE	Tail		9480	10630	130	1.38	13.8	179.4	15	Class C or H	Fluid Loss, Retarder, LCM
PRODUCTION	Lead		7480	10480	353	1.49	12.5	526.3	0	Class H	Fluid Loss, Retarder, LCM
PRODUCTION	Tail		10480	22319	1652	1.49	13.5	2461.6	20	Class H	Fluid Loss, Retarder, LCM

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H

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: An electronic PVT mud system will monitor flow rate, pump pressure, stroke rate, and volume. All necessary mud products (barite, bentonite, LCM) to control weight and fluid loss will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Describe the mud monitoring system utilized: electronic PVT mud system

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1835	1048 0	SALT SATURATED	8.8	9.6							
1048 0	2231 9	OIL-BASED MUD	12	12.5							
0	1835	WATER-BASED MUD	8.3	8.3							

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 3000 to TD. GR log will be acquired by MWD tools from the intermediate casing to TD.

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

GAMMA RAY LOG,

Coring operation description for the well:

No core or drill stem test is planned.

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7332**Anticipated Surface Pressure:** 4806**Anticipated Bottom Hole Temperature(F):** 240**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO**Describe:****Contingency Plans geohazards description:****Contingency Plans geohazards****Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations**

EGL_H2S_Plan_20240118111903_20240318220510.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Millie_Mile_13_24_Fed_Com_601H_Plan_3_20240514070057.pdf

Millie_Mile_13_24_Fed_Com_601H_Plan_3_AC_Report_20240514070110.pdf

Millie_Mile_13_24_Fed_Com_601H_Plan_3_Plot_20240514070115.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

Choke_Kill_Line_Certs_20240514070139.pdf

Rig_597ST_I2_Rig_Layout_Pad_20240514070147.pdf

Wellhead_3T_Design_20240514070152.pdf

Speedhead_Specs_3string_20230407122522_20240514070158.pdf

Millie_Mile_601H_Drill_Plan_3S_8.625_17lb_5.5_10M_070324_v10_20240724115734.pdf

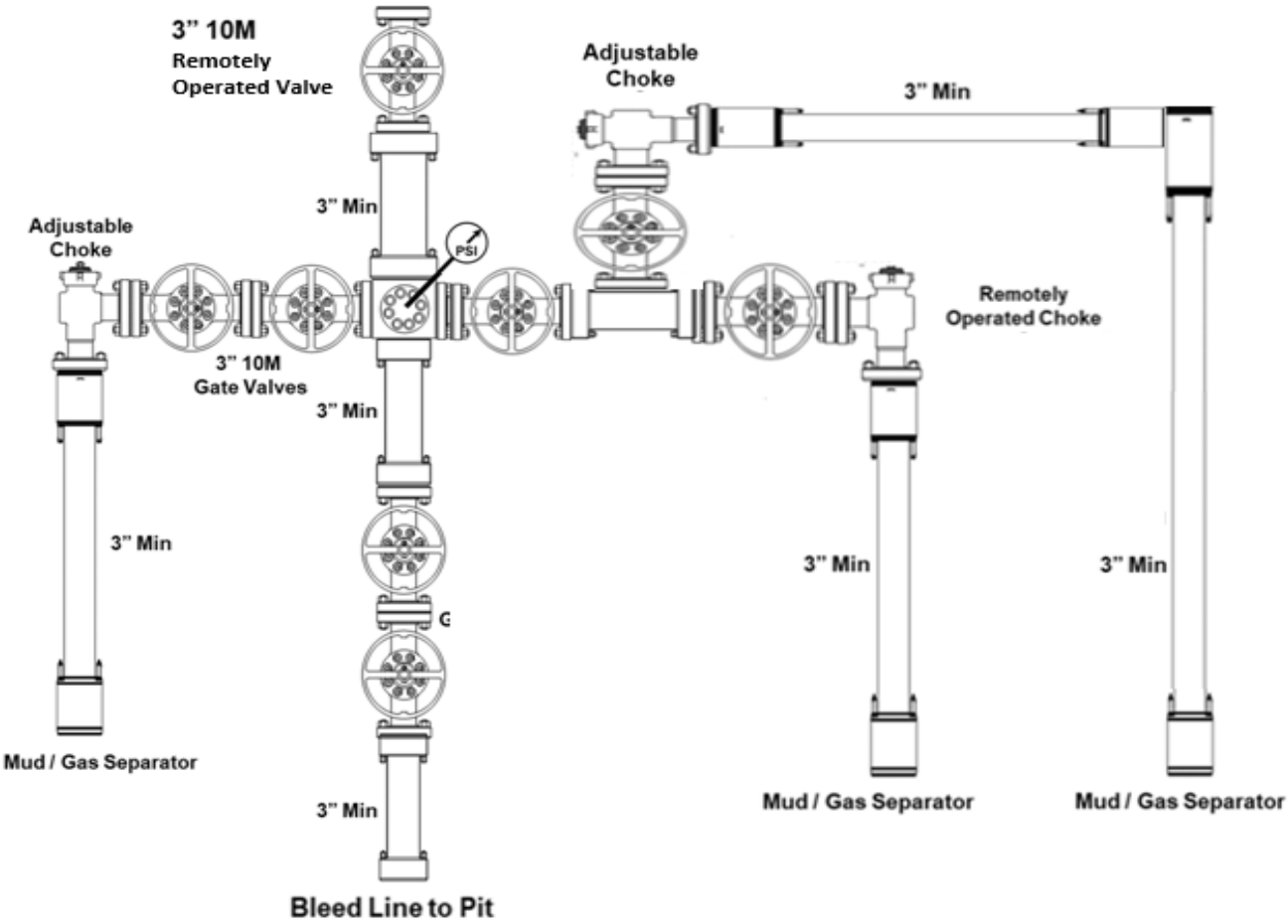
Well_Control_Plan_PBEX_v2_20240724115741.pdf

Other Variance attachment:

	PBEX	Date	6/05/2024
	223 W. Wall St #900 Midland, TX 79701	Page No.	1 of 1

10M CHOKE MANIFOLD SCHEMATIC

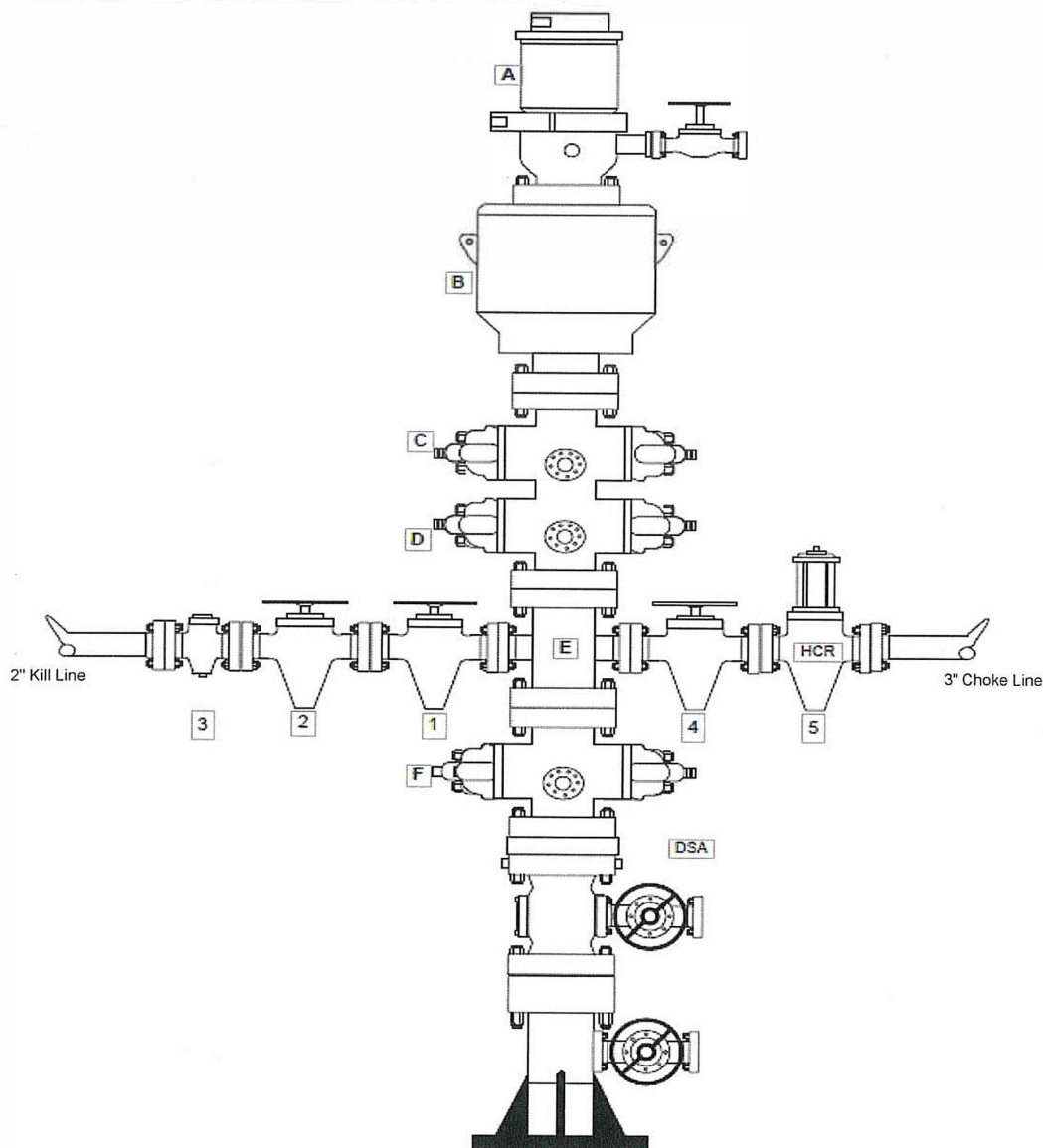
ITEM	SIZE	PRESSURE	DESCRIPTION



	PBEX		Date	6/05/2024
	223 W. Wall St #900 Midland, TX 79701		Page No.	1 of 1

10M BLOWOUT PREVENTER SCHEMATIC

BLOWOUT PREVENTOR COMPONENTS			
ITEM	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	1,500 psi	Rotating Head + Valve
B	13-5/8"	5,000 psi	Annular Preventer
C	13-5/8"	10,000 psi	Pipe Rams
D	13-5/8"	10,000 psi	Blind Rams
E	13-5/8"	10,000 psi	Mud Cross
F	13-5/8"	10,000 psi	Pipe Rams



KILL LINE			
ITEM	SIZE	PRESSURE	DESCRIPTION
1	2"	10,000 psi	Gate Valve
2	2"	10,000 psi	Gate Valve
3	2"	10,000 psi	Check Valve

CHOKE LINE			
ITEM	SIZE	PRESSURE	DESCRIPTION
4	3"	10,000 psi	Gate Valve
5	3"	10,000 psi	HCR Valve

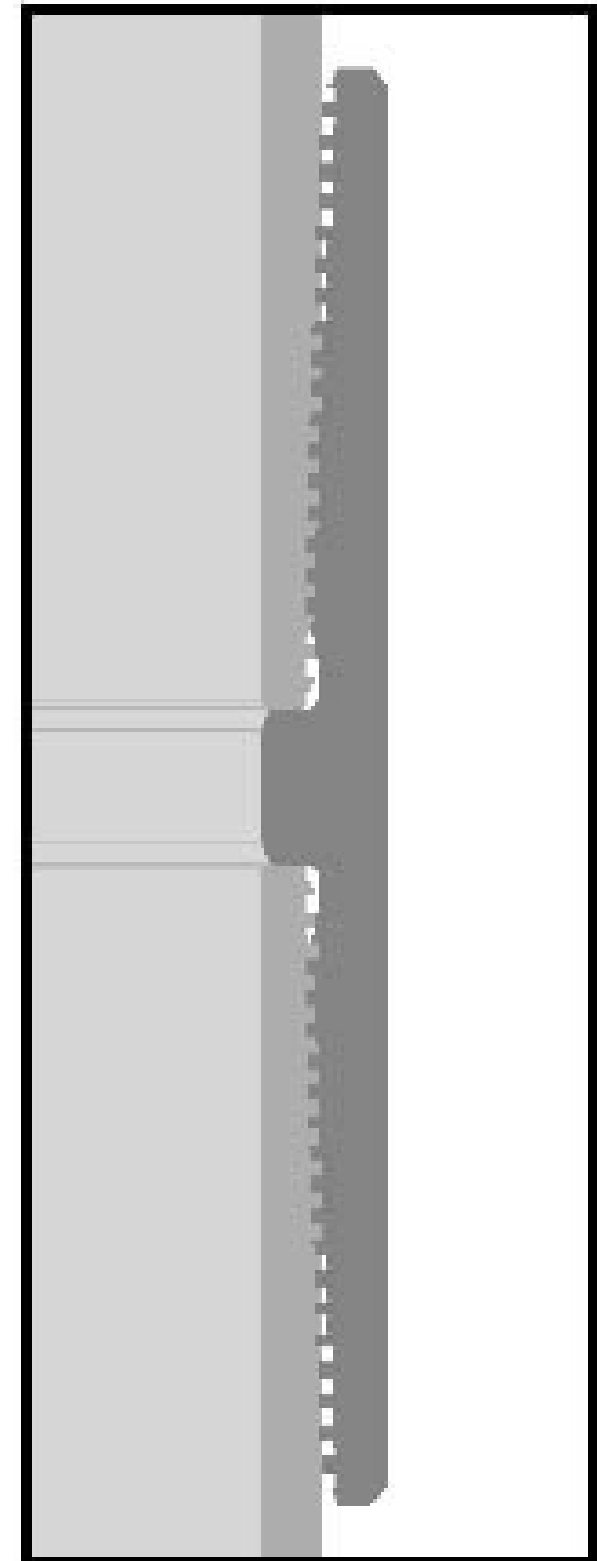
Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:
DWC/C-IS PLUS Casing standard	5-1/2 in	20.00 lb/ft (0.361 in)	VST P110 EC

VST P110 EC	Material
125,000	Grade
135,000	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)
19,100	Maximum Final Torque (ft-lbs)
21,600	Connection Yield Torque (ft-lbs)



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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.

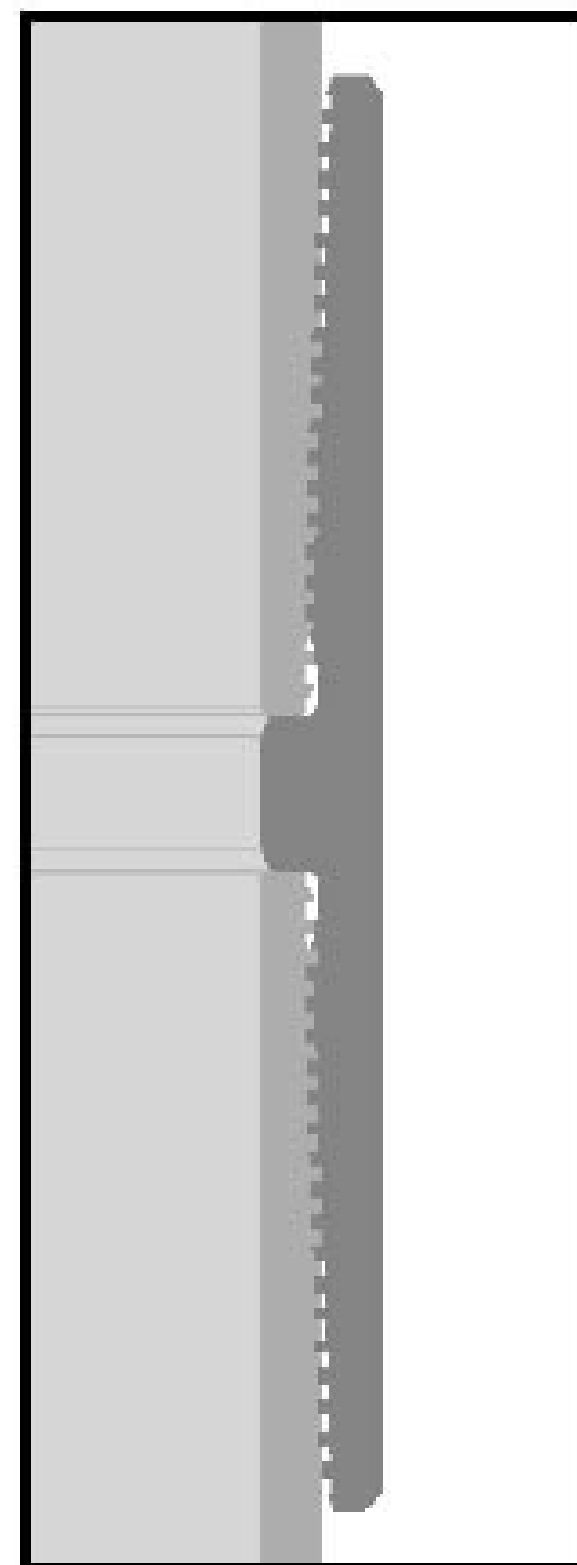
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2/6/2015



DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. 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.
4. 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.
8. 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.
11. 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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2/6/2015

3-string Casing Design Assumptions

Surface Casing

Collapse: $DF_C = 1.125$

- a. Full internal Evacuation: Collapse force is equal to mud gradient (0.433 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.718 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8727 in water (8.33 ppg).

Intermediate Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.626 psi/ft) in which the casing will be run and internal force equivalent to the displacement of fluid gradient.

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but to exceed 70% of the minimum internal yield.
- b. Gas Kick: Internal burst load of a 50 bbl gas kick at the casing with drill pipe in the hole. External force will be 10.2 ppg brine water gradient (0.531 psi/ft) and internal force will be with 10.0 ppg brine water gradient (0.521 psi/ft) with gas kick.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8441 in brine water (10.2 ppg).

Production Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.688 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Pressure Test: Pressure test will be to 80% of Internal Yield Pressure of casing intended for fracture stimulation.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8472 in oil-based mud (10.0 ppg).

DRAFT



U. S. Steel Tubular Products

8 5/8 32.00 lb (0.352) P110 HP

USS-TALON HTQ™RD9.000

	PIPE	CONNECTION	
MECHANICAL PROPERTIES [6]			
Minimum Yield Strength	125,000		psi
Maximum Yield Strength	140,000		psi
Minimum Tensile Strength	130,000		psi
DIMENSIONS			
Outside Diameter	8.625	9.000	in.
Wall Thickness	0.352		in.
Inside Diameter	7.921	7.921	in.
Drift - API	7.796		in.
Nominal Linear Weight, T&C	32.00	32.00	lbs/ft
Plain End Weight	31.13		lbs/ft
SECTION AREA			
Cross Sectional Area Critical Area	9.149	9.149	sq. in.
Joint Efficiency		100%	% [2]
PERFORMANCE			
Minimum Collapse Pressure	4,530	4,530	psi
Minimum Internal Yield Pressure	8,930	8,930	psi
Minimum Pipe Body Yield Strength	1,144,000		lbs
Joint Strength		1,144,000	lbs
Compression Rating		1,144,000	lbs
Reference Length		23,833	ft [5]
Maximum Uniaxial Bend Rating		66.4	deg/100 ft [3]
MAKE-UP DATA			
Minimum Make-Up Torque		20,200	ft-lbs [4]
Maximum Make-Up Torque		26,000	ft-lbs [4]
Maximum Operating Torque		119,000	ft-lbs [4]
Make-Up Loss		5.58	in.

UNCONTROLLED

UNCONTROLLED

Notes:

- 1) Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2) Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3) Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 4) Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5) Reference length is calculated by joint strength divided by Nominal Linear Weight,T&C with 1.5 safety factor.
- 6) Coupling must meet minimum mechanical properties of the pipe.

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Manual USS Product Data Sheet 2019 Rev29

3-string Casing Design Assumptions

Surface Casing

Collapse: $DF_C = 1.125$

- a. Full internal Evacuation: Collapse force is equal to mud gradient (0.433 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.718 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8727 in water (8.33 ppg).

Intermediate Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.626 psi/ft) in which the casing will be run and internal force equivalent to the displacement of fluid gradient.

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but to exceed 70% of the minimum internal yield.
- b. Gas Kick: Internal burst load of a 50 bbl gas kick at the casing with drill pipe in the hole. External force will be 10.2 ppg brine water gradient (0.531 psi/ft) and internal force will be with 10.0 ppg brine water gradient (0.521 psi/ft) with gas kick.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8441 in brine water (10.2 ppg).

Production Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.688 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Pressure Test: Pressure test will be to 80% of Internal Yield Pressure of casing intended for fracture stimulation.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8472 in oil-based mud (10.0 ppg).

 U. S. Steel Tubular Products
13.375" 54.50lb/ft (0.380" Wall) J55

11/1/2023 1:00:21 PM

MECHANICAL PROPERTIES	Pipe	BTC	LTC	STC		--
Minimum Yield Strength	55,000	--	--	--	psi	--
Maximum Yield Strength	80,000	--	--	--	psi	--
Minimum Tensile Strength	75,000	--	--	--	psi	--
DIMENSIONS	Pipe	BTC	LTC	STC		--
Outside Diameter	13.375	14.375	0.000	14.375	in.	--
Wall Thickness	0.380	--	--	--	in.	--
Inside Diameter	12.615	12.615	--	12.615	in.	--
Standard Drift	12.459	12.459	12.459	12.459	in.	--
Alternate Drift	--	12.500	--	--	in.	--
Nominal Linear Weight, T&C	54.50	--	--	--	lb/ft	--
Plain End Weight	52.79	--	--	--	lb/ft	--
PERFORMANCE	Pipe	BTC	LTC	STC		--
Minimum Collapse Pressure	1,130	1,130	1,130	1,130	psi	--
Minimum Internal Yield Pressure	2,740	2,740	2,740	2,740	psi	--
Minimum Pipe Body Yield Strength	853	--	--	--	1,000 lbs	--
Joint Strength	--	909	--	514	1,000 lbs	--
Reference Length	--	11,119	--	6,290	ft	--
MAKE-UP DATA	Pipe	BTC	LTC	STC		--
Make-Up Loss	--	4.81	--	3.50	in.	--
Minimum Make-Up Torque	--	--	--	3,860	ft-lb	--
Maximum Make-Up Torque	--	--	--	6,430	ft-lb	--

UNCONTROLLED

Notes

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

1-877-893-9461
connections@uss.com
www.usstubular.com

3-string Casing Design Assumptions

Surface Casing

Collapse: $DF_C = 1.125$

- a. Full internal Evacuation: Collapse force is equal to mud gradient (0.433 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.718 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8727 in water (8.33 ppg).

Intermediate Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.626 psi/ft) in which the casing will be run and internal force equivalent to the displacement of fluid gradient.

Burst: $DF_B = 1.125$

- a. Casing Pressure Test: According to BLM Onshore Order No. 2 with 0.22 psi/ft or 1500 psi, whichever is greater but to exceed 70% of the minimum internal yield.
- b. Gas Kick: Internal burst load of a 50 bbl gas kick at the casing with drill pipe in the hole. External force will be 10.2 ppg brine water gradient (0.531 psi/ft) and internal force will be with 10.0 ppg brine water gradient (0.521 psi/ft) with gas kick.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8441 in brine water (10.2 ppg).

Production Casing

Collapse: $DF_C = 1.125$

- a. Full Internal Evacuation: Collapse force is equal to mud gradient (0.531 psi/ft) in which the casing will be run and internal evacuation of casing.
- b. Cementing: Collapse force is equal net force of the planned cement slurry gradient (0.688 psi/ft) in which the casing will be run and internal force equivalent to fresh water displacement gradient (0.433 psi/ft).

Burst: $DF_B = 1.125$

- a. Pressure Test: Pressure test will be to 80% of Internal Yield Pressure of casing intended for fracture stimulation.

Tensile: $DF_T = 1.60$

- a. Overpull: A tensile force of 100,000 lbs over string weight with a buoyancy factor of 0.8472 in oil-based mud (10.0 ppg).



E. G. L. Resources, Inc.

H₂S Drilling Operations Plan

- a. All personnel will be trained in H₂S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each will be at least 150' from the wellhead, perpendicular from one another, and easily entered and exited. See H₂S page 5 for more details.
- c. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H₂S.
- d. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be $\geq 150'$ from the wellhead and ignited by a pilot light.
 - Beware of SO₂ created by flaring.
 - Choke manifold will include a remotely operated choke.
 - Mud gas separator
 - ii. Protective Equipment for Essential Personnel
 - Every person on site will be required to wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
 - One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
 - Four work/escape packs will be on the rig floor. Each pack will have a long enough hose to allow unimpaired work activity.
 - Four emergency escape packs will be in the doghouse for emergency evacuation.
 - Hand signals will be used when wearing protective breathing apparatus.
 - Stokes litter or stretcher
 - Two full OSHA compliant body harnesses
 - A 100-foot long x 5/8 inch OSHA compliant rope
 - One 20-pound ABC fire extinguisher

iii. H₂S Detection & Monitoring Equipment

- Every person on site will be required to wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the chest.
- A stationary detector with three sensors will be in the doghouse.
- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

iv. Visual Warning System

- Color-coded H₂S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current H₂S conditions.
- Two wind socks will be installed that will be visible from all sides.

v. Mud Program

- A water based mud with a pH of ≥ 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H₂S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H₂S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H₂S will be suitable for H₂S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).

vii. Communication from well site

- Cell phones and/or two-way radios will be used to communicate from the well site.

Hydrogen Sulfide Drilling Operations Plan
EGL Resources, Inc
Section 15, T19S, R33E
Lea County, NM

Coordination with Authorities

It is EGL’s responsibility to work with the proper agencies to properly respond to a major release. Every response by EGL must be in coordination with the State of New Mexico’s “Hazardous Materials Emergency Response Plan” (HMER). In case of release, the OCD must be notified no later than four hours after start of release. When reporting a release, EGL must possess necessary information about the release such as: directions to wellsite, wind direction, volume, and location of release, etc. See below for contact information of company, local, state, and national officials and agencies.

EGL Resources, Inc

Office.....432-687-6560

Hobbs Agencies

Ambulance.....911
City Police.....575-397-9265
Fire Department.....575-397-9308
State Police.....575-885-3138
Emergency Planning.....575-391-2983
New Mexico OCD.....575-393-6161 (**EMERGENCY: 575-370-3186**)
Bureau of Land Management.....575-393-3612



E.G.L. Resources, Inc.

Lea, County NM (NAD 83)

Millie Mile Pad

Millie Mile 13-24 Fed Com 601H

Wellbore #1

Plan: Plan 3

Standard Planning Report

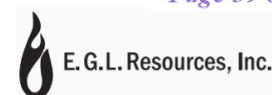
23 April, 2024



E. G. L. Resources, Inc.



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

Project	Lea, County NM (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Millie Mile Pad			
Site Position:		Northing:	607,084.97 usft	Latitude:	32.66691567
From:	Map	Easting:	759,718.58 usft	Longitude:	-103.62367395
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well	Millie Mile 13-24 Fed Com 601H					
Well Position	+N/-S	0.00 usft	Northing:	607,084.97 usft	Latitude:	32.66692081
	+E/-W	0.00 usft	Easting:	759,438.58 usft	Longitude:	-103.62458379
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,708.57 usft
Grid Convergence:		0.38 °				

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM 2023	12/14/2023	6.49	60.47	47,546.10000000

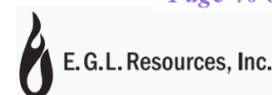
Design	Plan 3				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Plan Survey Tool Program	Date	4/23/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	22,318.54 Plan 3 (Wellbore #1)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,952.73	9.05	21.28	1,950.85	33.27	12.95	2.00	2.00	0.00	21.28	
6,102.75	9.05	21.28	6,049.15	641.85	249.97	0.00	0.00	0.00	0.00	
6,555.48	0.00	0.00	6,500.00	675.12	262.92	2.00	-2.00	0.00	180.00	MM 601H VP
10,962.52	0.00	0.00	10,907.04	675.12	262.92	0.00	0.00	0.00	0.00	
11,862.52	90.00	179.75	11,480.00	102.17	265.43	10.00	10.00	19.97	179.75	
22,318.54	90.00	179.75	11,480.00	-10,353.75	311.25	0.00	0.00	0.00	0.00	MM 601H PBHL(10' F



Planning Report

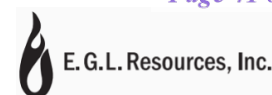


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
1,600.00	2.00	21.28	1,599.98	1.63	0.63	-1.63	2.00	2.00	0.00
1,700.00	4.00	21.28	1,699.84	6.50	2.53	-6.50	2.00	2.00	0.00
1,800.00	6.00	21.28	1,799.45	14.62	5.70	-14.62	2.00	2.00	0.00
1,900.00	8.00	21.28	1,898.70	25.98	10.12	-25.98	2.00	2.00	0.00
1,952.73	9.05	21.28	1,950.85	33.27	12.95	-33.27	2.00	2.00	0.00
Start 4150.02 hold at 1952.73 MD									
2,000.00	9.05	21.28	1,997.53	40.20	15.65	-40.20	0.00	0.00	0.00
2,100.00	9.05	21.28	2,096.28	54.86	21.37	-54.86	0.00	0.00	0.00
2,200.00	9.05	21.28	2,195.04	69.53	27.08	-69.53	0.00	0.00	0.00
2,300.00	9.05	21.28	2,293.79	84.19	32.79	-84.19	0.00	0.00	0.00
2,400.00	9.05	21.28	2,392.54	98.86	38.50	-98.86	0.00	0.00	0.00
2,500.00	9.05	21.28	2,491.30	113.52	44.21	-113.52	0.00	0.00	0.00
2,600.00	9.05	21.28	2,590.05	128.19	49.92	-128.19	0.00	0.00	0.00
2,700.00	9.05	21.28	2,688.81	142.85	55.63	-142.85	0.00	0.00	0.00
2,800.00	9.05	21.28	2,787.56	157.52	61.34	-157.52	0.00	0.00	0.00
2,900.00	9.05	21.28	2,886.31	172.18	67.05	-172.18	0.00	0.00	0.00
3,000.00	9.05	21.28	2,985.07	186.84	72.77	-186.84	0.00	0.00	0.00
3,100.00	9.05	21.28	3,083.82	201.51	78.48	-201.51	0.00	0.00	0.00
3,200.00	9.05	21.28	3,182.58	216.17	84.19	-216.17	0.00	0.00	0.00
3,300.00	9.05	21.28	3,281.33	230.84	89.90	-230.84	0.00	0.00	0.00
3,400.00	9.05	21.28	3,380.08	245.50	95.61	-245.50	0.00	0.00	0.00
3,500.00	9.05	21.28	3,478.84	260.17	101.32	-260.17	0.00	0.00	0.00
3,600.00	9.05	21.28	3,577.59	274.83	107.03	-274.83	0.00	0.00	0.00
3,700.00	9.05	21.28	3,676.34	289.50	112.74	-289.50	0.00	0.00	0.00
3,800.00	9.05	21.28	3,775.10	304.16	118.45	-304.16	0.00	0.00	0.00
3,900.00	9.05	21.28	3,873.85	318.83	124.16	-318.83	0.00	0.00	0.00
4,000.00	9.05	21.28	3,972.61	333.49	129.88	-333.49	0.00	0.00	0.00
4,100.00	9.05	21.28	4,071.36	348.16	135.59	-348.16	0.00	0.00	0.00
4,200.00	9.05	21.28	4,170.11	362.82	141.30	-362.82	0.00	0.00	0.00
4,300.00	9.05	21.28	4,268.87	377.49	147.01	-377.49	0.00	0.00	0.00
4,400.00	9.05	21.28	4,367.62	392.15	152.72	-392.15	0.00	0.00	0.00
4,500.00	9.05	21.28	4,466.38	406.82	158.43	-406.82	0.00	0.00	0.00
4,600.00	9.05	21.28	4,565.13	421.48	164.14	-421.48	0.00	0.00	0.00
4,700.00	9.05	21.28	4,663.88	436.15	169.85	-436.15	0.00	0.00	0.00
4,800.00	9.05	21.28	4,762.64	450.81	175.56	-450.81	0.00	0.00	0.00
4,900.00	9.05	21.28	4,861.39	465.47	181.28	-465.47	0.00	0.00	0.00



Planning Report

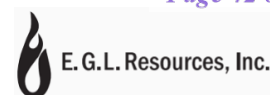


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

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)	
5,000.00	9.05	21.28	4,960.15	480.14	186.99	-480.14	0.00	0.00	0.00	
5,100.00	9.05	21.28	5,058.90	494.80	192.70	-494.80	0.00	0.00	0.00	
5,200.00	9.05	21.28	5,157.65	509.47	198.41	-509.47	0.00	0.00	0.00	
5,300.00	9.05	21.28	5,256.41	524.13	204.12	-524.13	0.00	0.00	0.00	
5,400.00	9.05	21.28	5,355.16	538.80	209.83	-538.80	0.00	0.00	0.00	
5,500.00	9.05	21.28	5,453.91	553.46	215.54	-553.46	0.00	0.00	0.00	
5,600.00	9.05	21.28	5,552.67	568.13	221.25	-568.13	0.00	0.00	0.00	
5,700.00	9.05	21.28	5,651.42	582.79	226.96	-582.79	0.00	0.00	0.00	
5,800.00	9.05	21.28	5,750.18	597.46	232.68	-597.46	0.00	0.00	0.00	
5,900.00	9.05	21.28	5,848.93	612.12	238.39	-612.12	0.00	0.00	0.00	
6,000.00	9.05	21.28	5,947.68	626.79	244.10	-626.79	0.00	0.00	0.00	
6,102.75	9.05	21.28	6,049.15	641.85	249.97	-641.85	0.00	0.00	0.00	
Start Drop -2.00										
6,200.00	7.11	21.28	6,145.43	654.60	254.93	-654.60	2.00	-2.00	0.00	
6,300.00	5.11	21.28	6,244.86	664.51	258.79	-664.51	2.00	-2.00	0.00	
6,400.00	3.11	21.28	6,344.60	671.19	261.39	-671.19	2.00	-2.00	0.00	
6,500.00	1.11	21.28	6,444.53	674.62	262.73	-674.62	2.00	-2.00	0.00	
6,555.48	0.00	0.00	6,500.00	675.12	262.92	-675.12	2.00	-2.00	0.00	
Start 4407.04 hold at 6555.48 MD										
6,600.00	0.00	0.00	6,544.52	675.12	262.92	-675.12	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,644.52	675.12	262.92	-675.12	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,744.52	675.12	262.92	-675.12	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,844.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,944.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,044.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,144.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,244.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,344.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,444.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,544.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,644.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,744.52	675.12	262.92	-675.12	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,844.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,944.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,044.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,144.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,244.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,344.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,444.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,544.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,644.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,744.52	675.12	262.92	-675.12	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,844.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,944.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,044.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,144.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,244.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,344.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,444.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,544.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,644.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,744.52	675.12	262.92	-675.12	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,844.52	675.12	262.92	-675.12	0.00	0.00	0.00	
10,000.00	0.00	0.00	9,944.52	675.12	262.92	-675.12	0.00	0.00	0.00	



Planning Report

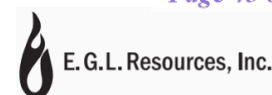


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

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)
10,100.00	0.00	0.00	10,044.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,200.00	0.00	0.00	10,144.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,300.00	0.00	0.00	10,244.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,400.00	0.00	0.00	10,344.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,500.00	0.00	0.00	10,444.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,600.00	0.00	0.00	10,544.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,700.00	0.00	0.00	10,644.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,800.00	0.00	0.00	10,744.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,900.00	0.00	0.00	10,844.52	675.12	262.92	-675.12	0.00	0.00	0.00
10,962.52	0.00	0.00	10,907.04	675.12	262.92	-675.12	0.00	0.00	0.00
Start DLS 10.00 TFO 179.75									
11,000.00	3.75	179.75	10,944.50	673.89	262.93	-673.89	10.00	10.00	0.00
11,050.00	8.75	179.75	10,994.18	668.45	262.95	-668.45	10.00	10.00	0.00
11,100.00	13.75	179.75	11,043.21	658.70	262.99	-658.70	10.00	10.00	0.00
11,150.00	18.75	179.75	11,091.19	644.72	263.05	-644.72	10.00	10.00	0.00
11,200.00	23.75	179.75	11,137.78	626.60	263.13	-626.60	10.00	10.00	0.00
11,250.00	28.75	179.75	11,182.61	604.50	263.23	-604.50	10.00	10.00	0.00
11,300.00	33.75	179.75	11,225.34	578.57	263.34	-578.57	10.00	10.00	0.00
11,350.00	38.75	179.75	11,265.65	549.02	263.47	-549.02	10.00	10.00	0.00
11,400.00	43.75	179.75	11,303.23	516.06	263.62	-516.06	10.00	10.00	0.00
11,450.00	48.75	179.75	11,337.80	479.96	263.78	-479.96	10.00	10.00	0.00
11,500.00	53.75	179.75	11,369.09	440.97	263.95	-440.97	10.00	10.00	0.00
11,550.00	58.75	179.75	11,396.86	399.42	264.13	-399.42	10.00	10.00	0.00
11,600.00	63.75	179.75	11,420.90	355.59	264.32	-355.59	10.00	10.00	0.00
11,650.00	68.75	179.75	11,441.03	309.84	264.52	-309.84	10.00	10.00	0.00
11,700.00	73.75	179.75	11,457.10	262.51	264.73	-262.51	10.00	10.00	0.00
11,750.00	78.75	179.75	11,468.99	213.96	264.94	-213.96	10.00	10.00	0.00
11,800.00	83.75	179.75	11,476.59	164.56	265.16	-164.56	10.00	10.00	0.00
11,850.00	88.75	179.75	11,479.86	114.69	265.38	-114.69	10.00	10.00	0.00
11,862.52	90.00	179.75	11,480.00	102.17	265.43	-102.17	10.00	10.00	0.00
Start 10456.02 hold at 11862.52 MD									
11,900.00	90.00	179.75	11,480.00	64.69	265.59	-64.69	0.00	0.00	0.00
12,000.00	90.00	179.75	11,480.00	-35.31	266.03	35.31	0.00	0.00	0.00
12,100.00	90.00	179.75	11,480.00	-135.31	266.47	135.31	0.00	0.00	0.00
12,200.00	90.00	179.75	11,480.00	-235.31	266.91	235.31	0.00	0.00	0.00
12,300.00	90.00	179.75	11,480.00	-335.31	267.35	335.31	0.00	0.00	0.00
12,400.00	90.00	179.75	11,480.00	-435.31	267.79	435.31	0.00	0.00	0.00
12,500.00	90.00	179.75	11,480.00	-535.31	268.22	535.31	0.00	0.00	0.00
12,600.00	90.00	179.75	11,480.00	-635.31	268.66	635.31	0.00	0.00	0.00
12,700.00	90.00	179.75	11,480.00	-735.31	269.10	735.31	0.00	0.00	0.00
12,800.00	90.00	179.75	11,480.00	-835.30	269.54	835.30	0.00	0.00	0.00
12,900.00	90.00	179.75	11,480.00	-935.30	269.98	935.30	0.00	0.00	0.00
13,000.00	90.00	179.75	11,480.00	-1,035.30	270.41	1,035.30	0.00	0.00	0.00
13,100.00	90.00	179.75	11,480.00	-1,135.30	270.85	1,135.30	0.00	0.00	0.00
13,200.00	90.00	179.75	11,480.00	-1,235.30	271.29	1,235.30	0.00	0.00	0.00
13,300.00	90.00	179.75	11,480.00	-1,335.30	271.73	1,335.30	0.00	0.00	0.00
13,400.00	90.00	179.75	11,480.00	-1,435.30	272.17	1,435.30	0.00	0.00	0.00
13,500.00	90.00	179.75	11,480.00	-1,535.30	272.61	1,535.30	0.00	0.00	0.00
13,600.00	90.00	179.75	11,480.00	-1,635.30	273.04	1,635.30	0.00	0.00	0.00
13,700.00	90.00	179.75	11,480.00	-1,735.30	273.48	1,735.30	0.00	0.00	0.00
13,800.00	90.00	179.75	11,480.00	-1,835.30	273.92	1,835.30	0.00	0.00	0.00
13,900.00	90.00	179.75	11,480.00	-1,935.29	274.36	1,935.29	0.00	0.00	0.00
14,000.00	90.00	179.75	11,480.00	-2,035.29	274.80	2,035.29	0.00	0.00	0.00
14,100.00	90.00	179.75	11,480.00	-2,135.29	275.23	2,135.29	0.00	0.00	0.00



Planning Report

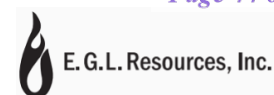


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

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)
14,200.00	90.00	179.75	11,480.00	-2,235.29	275.67	2,235.29	0.00	0.00	0.00
14,300.00	90.00	179.75	11,480.00	-2,335.29	276.11	2,335.29	0.00	0.00	0.00
14,400.00	90.00	179.75	11,480.00	-2,435.29	276.55	2,435.29	0.00	0.00	0.00
14,500.00	90.00	179.75	11,480.00	-2,535.29	276.99	2,535.29	0.00	0.00	0.00
14,600.00	90.00	179.75	11,480.00	-2,635.29	277.43	2,635.29	0.00	0.00	0.00
14,700.00	90.00	179.75	11,480.00	-2,735.29	277.86	2,735.29	0.00	0.00	0.00
14,800.00	90.00	179.75	11,480.00	-2,835.29	278.30	2,835.29	0.00	0.00	0.00
14,900.00	90.00	179.75	11,480.00	-2,935.28	278.74	2,935.28	0.00	0.00	0.00
15,000.00	90.00	179.75	11,480.00	-3,035.28	279.18	3,035.28	0.00	0.00	0.00
15,100.00	90.00	179.75	11,480.00	-3,135.28	279.62	3,135.28	0.00	0.00	0.00
15,200.00	90.00	179.75	11,480.00	-3,235.28	280.05	3,235.28	0.00	0.00	0.00
15,300.00	90.00	179.75	11,480.00	-3,335.28	280.49	3,335.28	0.00	0.00	0.00
15,400.00	90.00	179.75	11,480.00	-3,435.28	280.93	3,435.28	0.00	0.00	0.00
15,500.00	90.00	179.75	11,480.00	-3,535.28	281.37	3,535.28	0.00	0.00	0.00
15,600.00	90.00	179.75	11,480.00	-3,635.28	281.81	3,635.28	0.00	0.00	0.00
15,700.00	90.00	179.75	11,480.00	-3,735.28	282.25	3,735.28	0.00	0.00	0.00
15,800.00	90.00	179.75	11,480.00	-3,835.28	282.68	3,835.28	0.00	0.00	0.00
15,900.00	90.00	179.75	11,480.00	-3,935.28	283.12	3,935.28	0.00	0.00	0.00
16,000.00	90.00	179.75	11,480.00	-4,035.27	283.56	4,035.27	0.00	0.00	0.00
16,100.00	90.00	179.75	11,480.00	-4,135.27	284.00	4,135.27	0.00	0.00	0.00
16,200.00	90.00	179.75	11,480.00	-4,235.27	284.44	4,235.27	0.00	0.00	0.00
16,300.00	90.00	179.75	11,480.00	-4,335.27	284.87	4,335.27	0.00	0.00	0.00
16,400.00	90.00	179.75	11,480.00	-4,435.27	285.31	4,435.27	0.00	0.00	0.00
16,500.00	90.00	179.75	11,480.00	-4,535.27	285.75	4,535.27	0.00	0.00	0.00
16,600.00	90.00	179.75	11,480.00	-4,635.27	286.19	4,635.27	0.00	0.00	0.00
16,700.00	90.00	179.75	11,480.00	-4,735.27	286.63	4,735.27	0.00	0.00	0.00
16,800.00	90.00	179.75	11,480.00	-4,835.27	287.06	4,835.27	0.00	0.00	0.00
16,900.00	90.00	179.75	11,480.00	-4,935.27	287.50	4,935.27	0.00	0.00	0.00
17,000.00	90.00	179.75	11,480.00	-5,035.26	287.94	5,035.26	0.00	0.00	0.00
17,100.00	90.00	179.75	11,480.00	-5,135.26	288.38	5,135.26	0.00	0.00	0.00
17,200.00	90.00	179.75	11,480.00	-5,235.26	288.82	5,235.26	0.00	0.00	0.00
17,300.00	90.00	179.75	11,480.00	-5,335.26	289.26	5,335.26	0.00	0.00	0.00
17,400.00	90.00	179.75	11,480.00	-5,435.26	289.69	5,435.26	0.00	0.00	0.00
17,500.00	90.00	179.75	11,480.00	-5,535.26	290.13	5,535.26	0.00	0.00	0.00
17,600.00	90.00	179.75	11,480.00	-5,635.26	290.57	5,635.26	0.00	0.00	0.00
17,700.00	90.00	179.75	11,480.00	-5,735.26	291.01	5,735.26	0.00	0.00	0.00
17,800.00	90.00	179.75	11,480.00	-5,835.26	291.45	5,835.26	0.00	0.00	0.00
17,900.00	90.00	179.75	11,480.00	-5,935.26	291.88	5,935.26	0.00	0.00	0.00
18,000.00	90.00	179.75	11,480.00	-6,035.26	292.32	6,035.26	0.00	0.00	0.00
18,100.00	90.00	179.75	11,480.00	-6,135.25	292.76	6,135.25	0.00	0.00	0.00
18,200.00	90.00	179.75	11,480.00	-6,235.25	293.20	6,235.25	0.00	0.00	0.00
18,300.00	90.00	179.75	11,480.00	-6,335.25	293.64	6,335.25	0.00	0.00	0.00
18,400.00	90.00	179.75	11,480.00	-6,435.25	294.08	6,435.25	0.00	0.00	0.00
18,500.00	90.00	179.75	11,480.00	-6,535.25	294.51	6,535.25	0.00	0.00	0.00
18,600.00	90.00	179.75	11,480.00	-6,635.25	294.95	6,635.25	0.00	0.00	0.00
18,700.00	90.00	179.75	11,480.00	-6,735.25	295.39	6,735.25	0.00	0.00	0.00
18,800.00	90.00	179.75	11,480.00	-6,835.25	295.83	6,835.25	0.00	0.00	0.00
18,900.00	90.00	179.75	11,480.00	-6,935.25	296.27	6,935.25	0.00	0.00	0.00
19,000.00	90.00	179.75	11,480.00	-7,035.25	296.70	7,035.25	0.00	0.00	0.00
19,100.00	90.00	179.75	11,480.00	-7,135.24	297.14	7,135.24	0.00	0.00	0.00
19,200.00	90.00	179.75	11,480.00	-7,235.24	297.58	7,235.24	0.00	0.00	0.00
19,300.00	90.00	179.75	11,480.00	-7,335.24	298.02	7,335.24	0.00	0.00	0.00
19,400.00	90.00	179.75	11,480.00	-7,435.24	298.46	7,435.24	0.00	0.00	0.00
19,500.00	90.00	179.75	11,480.00	-7,535.24	298.90	7,535.24	0.00	0.00	0.00



Planning Report

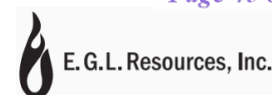


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

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)	
19,600.00	90.00	179.75	11,480.00	-7,635.24	299.33	7,635.24	0.00	0.00	0.00	
19,700.00	90.00	179.75	11,480.00	-7,735.24	299.77	7,735.24	0.00	0.00	0.00	
19,800.00	90.00	179.75	11,480.00	-7,835.24	300.21	7,835.24	0.00	0.00	0.00	
19,900.00	90.00	179.75	11,480.00	-7,935.24	300.65	7,935.24	0.00	0.00	0.00	
20,000.00	90.00	179.75	11,480.00	-8,035.24	301.09	8,035.24	0.00	0.00	0.00	
20,100.00	90.00	179.75	11,480.00	-8,135.23	301.52	8,135.23	0.00	0.00	0.00	
20,200.00	90.00	179.75	11,480.00	-8,235.23	301.96	8,235.23	0.00	0.00	0.00	
20,300.00	90.00	179.75	11,480.00	-8,335.23	302.40	8,335.23	0.00	0.00	0.00	
20,400.00	90.00	179.75	11,480.00	-8,435.23	302.84	8,435.23	0.00	0.00	0.00	
20,500.00	90.00	179.75	11,480.00	-8,535.23	303.28	8,535.23	0.00	0.00	0.00	
20,600.00	90.00	179.75	11,480.00	-8,635.23	303.72	8,635.23	0.00	0.00	0.00	
20,700.00	90.00	179.75	11,480.00	-8,735.23	304.15	8,735.23	0.00	0.00	0.00	
20,800.00	90.00	179.75	11,480.00	-8,835.23	304.59	8,835.23	0.00	0.00	0.00	
20,900.00	90.00	179.75	11,480.00	-8,935.23	305.03	8,935.23	0.00	0.00	0.00	
21,000.00	90.00	179.75	11,480.00	-9,035.23	305.47	9,035.23	0.00	0.00	0.00	
21,100.00	90.00	179.75	11,480.00	-9,135.23	305.91	9,135.23	0.00	0.00	0.00	
21,200.00	90.00	179.75	11,480.00	-9,235.22	306.34	9,235.22	0.00	0.00	0.00	
21,300.00	90.00	179.75	11,480.00	-9,335.22	306.78	9,335.22	0.00	0.00	0.00	
21,400.00	90.00	179.75	11,480.00	-9,435.22	307.22	9,435.22	0.00	0.00	0.00	
21,500.00	90.00	179.75	11,480.00	-9,535.22	307.66	9,535.22	0.00	0.00	0.00	
21,600.00	90.00	179.75	11,480.00	-9,635.22	308.10	9,635.22	0.00	0.00	0.00	
21,700.00	90.00	179.75	11,480.00	-9,735.22	308.54	9,735.22	0.00	0.00	0.00	
21,800.00	90.00	179.75	11,480.00	-9,835.22	308.97	9,835.22	0.00	0.00	0.00	
21,900.00	90.00	179.75	11,480.00	-9,935.22	309.41	9,935.22	0.00	0.00	0.00	
22,000.00	90.00	179.75	11,480.00	-10,035.22	309.85	10,035.22	0.00	0.00	0.00	
22,100.00	90.00	179.75	11,480.00	-10,135.22	310.29	10,135.22	0.00	0.00	0.00	
22,200.00	90.00	179.75	11,480.00	-10,235.21	310.73	10,235.21	0.00	0.00	0.00	
22,300.00	90.00	179.75	11,480.00	-10,335.21	311.16	10,335.21	0.00	0.00	0.00	
22,318.54	90.00	179.75	11,480.00	-10,353.75	311.25	10,353.75	0.00	0.00	0.00	
TD at 22318.54										



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 3		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
MM 601H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	607,084.97	759,438.58	32.66692081	-103.62458379
MM 601H VP - plan hits target center - Point	0.00	0.00	6,500.00	675.12	262.92	607,760.09	759,701.50	32.66877155	-103.62371479
MM 601H KOP - plan hits target center - Point	0.00	0.00	10,907.04	675.12	262.92	607,760.09	759,701.50	32.66877155	-103.62371479
MM 601H FTP/PPP1(10' - plan hits target center - Point	0.00	0.00	11,480.00	102.17	265.43	607,187.14	759,704.01	32.66719675	-103.62371907
MM 601H PPP2(0' FNL - plan misses target center by 2.12usft at 15723.78usft MD (11480.00 TVD, -3759.06 N, 282.35 E) - Point	0.00	0.00	11,480.00	-3,759.07	280.23	603,325.90	759,718.81	32.65658384	-103.62375485
MM 601H LTP(100' FSL - plan misses target center by 0.05usft at 22228.54usft MD (11480.00 TVD, -10263.75 N, 310.85 E) - Point	0.00	0.00	11,480.00	-10,263.75	310.80	596,821.22	759,749.38	32.63870510	-103.62379672
MM 601H PBHL(10' FSL - plan hits target center - Point	0.00	0.00	11,480.00	-10,353.75	311.25	596,731.22	759,749.82	32.63845772	-103.62379723
MM 601H PPP3(0' FNL - plan misses target center by 2.84usft at 17043.72usft MD (11480.00 TVD, -5078.99 N, 288.13 E) - Point	0.00	0.00	11,480.00	-5,079.00	285.29	602,005.97	759,723.87	32.65295591	-103.62376707

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
22,318.54	11,480.00	20" Casing		20	24

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.00	1,500.00	0.00	0.00	Start Build 2.00	
1,952.73	1,950.85	33.27	12.95	Start 4150.02 hold at 1952.73 MD	
6,102.75	6,049.15	641.85	249.97	Start Drop -2.00	
6,555.48	6,500.00	675.12	262.92	Start 4407.04 hold at 6555.48 MD	
10,962.52	10,907.04	675.12	262.92	Start DLS 10.00 TFO 179.75	
11,862.52	11,480.00	102.17	265.43	Start 10456.02 hold at 11862.52 MD	
22,318.54	11,480.00	-10,353.75	311.25	TD at 22318.54	



E.G.L. Resources, Inc.

Lea, County NM (NAD 83)

Millie Mile Pad

Millie Mile 13-24 Fed Com 601H

Wellbore #1

Plan 3

Anticollision Report

23 April, 2024



E. G. L. Resources, Inc.



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Reference	Plan 3		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,100.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/23/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	22,318.54	Plan 3 (Wellbore #1)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Millie Mile Pad						
BUFFALO 12-1 FED COM 2BS 1H - Wellbore #1 - Wellbo	6,174.16	6,126.11	961.62	939.24	42.968	CC
BUFFALO 12-1 FED COM 2BS 1H - Wellbore #1 - Wellbo	6,200.00	6,150.54	961.65	939.23	42.894	ES
BUFFALO 12-1 FED COM 2BS 1H - Wellbore #1 - Wellbo	9,900.00	9,923.20	1,000.98	967.76	30.135	SF
BUFFALO 12-1 FED COM WCC 6H - Wellbore #1 - Wellb	11,536.48	11,499.70	848.14	810.74	22.677	CC, ES
BUFFALO 12-1 FED COM WCC 6H - Wellbore #1 - Wellb	11,700.00	11,482.00	865.81	826.77	22.178	SF
ESMERALDA 24 FEDERAL 1 (P&A) - Wellbore #1 - Well	20,677.59	11,423.43	1,539.11	1,272.04	5.763	CC
ESMERALDA 24 FEDERAL 1 (P&A) - Wellbore #1 - Well	20,700.00	11,423.43	1,539.28	1,272.00	5.759	ES, SF
LA RICA FEDERAL 1 (P&A) - Wellbore #1 - Wellbore #1	15,071.66	11,455.43	195.46	-32.09	0.859	No-Go Zone - Stop Drilling, (
Millie Mile 13-24 Fed Com 101H - Wellbore #1 - Plan 3	6,599.39	6,602.22	119.84	92.90	4.448	CC
Millie Mile 13-24 Fed Com 101H - Wellbore #1 - Plan 3	8,808.66	8,811.49	120.00	89.49	3.933	ES, SF
Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3	1,500.00	1,500.00	260.00	250.59	27.631	CC
Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3	1,800.00	1,788.93	260.69	249.98	24.330	ES
Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3	2,200.00	2,160.08	274.91	262.52	22.197	SF
Millie Mile 13-24 Fed Com 201H - Wellbore #1 - Plan 3	2,000.00	1,986.52	219.70	208.29	19.250	CC
Millie Mile 13-24 Fed Com 201H - Wellbore #1 - Plan 3	9,708.93	9,725.60	220.00	187.48	6.765	ES
Millie Mile 13-24 Fed Com 201H - Wellbore #1 - Plan 3	22,318.54	21,104.97	1,249.52	1,062.87	6.694	SF
Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3	1,200.00	1,200.00	240.00	231.69	28.894	CC, ES
Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3	22,318.54	21,284.08	1,970.91	1,776.86	10.157	SF
Millie Mile 13-24 Fed Com 602H - Wellbore #1 - Plan 3	1,500.00	1,500.00	40.00	30.59	4.251	CC, ES
Millie Mile 13-24 Fed Com 602H - Wellbore #1 - Plan 3	1,700.00	1,701.52	42.61	31.81	3.943	SF
Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3	1,500.00	1,500.00	280.00	270.59	29.756	CC
Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3	1,600.00	1,595.25	280.21	270.47	28.767	ES
Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3	22,318.54	22,584.05	1,870.00	1,699.19	10.948	SF
Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3	1,500.00	1,500.00	20.00	10.59	2.125	CC
Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3	1,700.00	1,701.08	21.09	10.11	1.920	Collision Risk Procedures R

Offset Design:	Millie Mile Pad - BUFFALO 12-1 FED COM 2BS 1H - Wellbore #1 - Wellbore #1										Offset Site Error:	0.00 usft
Survey Program:	160-MWD+IGRF										Offset Well Error:	0.50 usft
Reference	Vertical Depth (usft)	Offset	Vertical Depth (usft)	Semi Major Axis	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.00	0.00	10.94	-0.39	0.50	0.50	73.88	330.63	1,144.37	1,191.18			
100.00	100.00	107.51	96.18	0.66	0.74	73.88	330.84	1,144.49	1,191.35	1,189.95	1.40	850.929
200.00	200.00	204.42	193.09	1.35	1.10	73.85	331.43	1,144.80	1,191.83	1,189.40	2.44	489.390

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - BUFFALO 12-1 FED COM 2BS 1H - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft
Survey Program: 160-MWD+IGRF													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	10,344.52	9,952.38	9,625.47	26.46	16.36	88.91	693.72	1,240.09	1,213.36	1,176.72	36.64	33.119	
10,500.00	10,444.52	9,955.83	9,625.76	26.52	16.40	88.71	697.15	1,240.25	1,275.16	1,237.88	37.28	34.208	
10,600.00	10,544.52	9,975.00	9,626.97	26.57	16.57	87.59	716.26	1,241.10	1,341.81	1,303.70	38.10	35.215	
10,700.00	10,644.52	9,975.00	9,626.97	26.62	16.57	87.59	716.26	1,241.10	1,412.07	1,373.43	38.64	36.540	
10,800.00	10,744.52	9,975.00	9,626.97	26.67	16.57	87.59	716.26	1,241.10	1,485.75	1,446.59	39.17	37.935	
10,900.00	10,844.52	9,975.00	9,626.97	26.73	16.57	87.59	716.26	1,241.10	1,562.36	1,522.69	39.67	39.384	
11,000.00	10,944.50	9,975.00	9,626.97	26.72	16.57	-87.18	716.26	1,241.10	1,641.50	1,601.34	40.15	40.882	
11,100.00	11,043.21	9,975.00	9,626.97	26.63	16.57	-73.77	716.26	1,241.10	1,722.13	1,681.48	40.66	42.360	
11,200.00	11,137.78	9,975.00	9,626.97	26.50	16.57	-61.54	716.26	1,241.10	1,801.95	1,760.74	41.21	43.730	
11,300.00	11,225.34	9,946.83	9,624.98	26.34	16.31	-50.64	688.20	1,239.85	1,877.97	1,836.45	41.52	45.230	
11,400.00	11,303.23	9,911.00	9,620.51	26.17	15.98	-42.40	652.68	1,238.36	1,949.45	1,907.63	41.82	46.618	
11,500.00	11,369.09	9,911.00	9,620.51	25.99	15.98	-37.15	652.68	1,238.36	2,012.92	1,970.42	42.49	47.368	
11,600.00	11,420.90	9,889.85	9,616.99	25.84	15.80	-33.05	631.85	1,237.39	2,068.16	2,025.10	43.06	48.027	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - BUFFALO 12-1 FED COM WCC 6H - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program:		151-MWD+IGRF					Rule Assigned:				Offset Well Error:	0.50 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,000.00	9,944.52	9,967.15	9,953.49	26.25	12.99	111.79	324.83	1,139.06	943.61	915.85	27.76	33.992		
10,100.00	10,044.52	10,059.51	10,045.84	26.31	13.02	111.75	325.56	1,138.90	943.15	915.29	27.87	33.843		
10,200.00	10,144.52	10,163.10	10,149.43	26.36	13.07	111.71	326.29	1,138.92	942.91	914.92	27.99	33.690		
10,300.00	10,244.52	10,270.15	10,256.46	26.41	13.11	111.62	328.09	1,138.60	942.02	913.92	28.09	33.530		
10,400.00	10,344.52	10,375.09	10,361.38	26.46	13.12	111.56	329.54	1,137.41	940.45	912.27	28.18	33.378		
10,500.00	10,444.52	10,478.59	10,464.86	26.52	13.10	111.54	330.57	1,135.78	938.62	910.37	28.25	33.224		
10,600.00	10,544.52	10,584.14	10,570.37	26.57	13.09	111.53	331.85	1,133.08	935.78	907.45	28.33	33.032		
10,700.00	10,644.52	10,681.30	10,667.51	26.62	13.08	111.52	332.74	1,131.06	933.50	905.09	28.41	32.861		
10,800.00	10,744.52	10,774.41	10,760.58	26.67	13.10	111.51	333.91	1,128.80	930.82	902.30	28.52	32.634		
10,857.52	10,802.04	10,815.87	10,802.04	26.71	13.13	111.47	334.61	1,128.69	930.32	901.72	28.61	32.521		
10,900.00	10,844.52	10,850.50	10,836.65	26.73	13.17	111.42	335.23	1,129.14	930.55	901.86	28.69	32.437		
11,000.00	10,944.50	10,949.99	10,936.13	26.72	13.26	-68.45	335.41	1,130.50	931.30	902.45	28.85	32.276		
11,100.00	11,043.21	11,085.47	11,071.56	26.63	15.56	-70.36	337.55	1,129.83	924.85	893.91	30.94	29.889		
11,200.00	11,137.78	11,250.99	11,235.03	26.50	19.94	-76.55	361.91	1,127.94	909.62	874.57	35.05	25.953		
11,300.00	11,225.34	11,427.80	11,399.06	26.34	20.07	-87.73	425.64	1,115.07	882.61	846.60	36.01	24.511		
11,400.00	11,303.23	11,481.73	11,446.08	26.17	20.14	-93.35	451.47	1,109.60	860.38	823.87	36.51	23.566		
11,500.00	11,369.09	11,497.63	11,459.72	25.99	20.17	-95.54	459.46	1,107.93	849.03	811.93	37.11	22.882		
11,536.48	11,389.71	11,499.70	11,461.49	25.94	20.17	-95.77	460.51	1,107.71	848.14	810.74	37.40	22.677	CC, ES	
11,600.00	11,420.90	11,498.71	11,460.65	25.84	20.17	-95.43	460.01	1,107.81	850.86	812.87	37.99	22.398		
11,700.00	11,457.10	11,482.00	11,446.31	25.72	20.14	-92.81	451.61	1,109.57	865.81	826.77	39.04	22.178	SF	
11,800.00	11,476.59	11,456.21	11,423.99	25.66	20.11	-88.46	438.95	1,112.26	891.98	851.82	40.16	22.210		
11,900.00	11,480.00	11,422.82	11,394.65	25.66	20.07	-84.28	423.39	1,115.56	926.50	885.27	41.23	22.473		
12,000.00	11,480.00	11,388.00	11,363.37	25.68	20.03	-82.23	408.52	1,119.20	968.75	926.52	42.24	22.936		
12,100.00	11,480.00	11,368.09	11,345.21	25.71	20.00	-81.06	400.64	1,121.26	1,017.87	974.75	43.13	23.602		
12,200.00	11,480.00	11,331.87	11,311.73	25.74	19.96	-78.93	387.21	1,124.45	1,072.95	1,028.99	43.96	24.409		
12,300.00	11,480.00	11,293.00	11,275.23	25.77	19.93	-76.64	374.01	1,126.58	1,132.85	1,088.14	44.71	25.340		
12,400.00	11,480.00	11,276.89	11,259.92	25.81	19.92	-75.69	369.02	1,127.13	1,197.43	1,152.19	45.24	26.467		
12,500.00	11,480.00	11,265.33	11,248.85	25.86	19.91	-75.01	365.71	1,127.50	1,266.34	1,220.68	45.65	27.738		
12,600.00	11,480.00	11,246.00	11,230.20	25.91	19.90	-73.87	360.68	1,128.09	1,339.03	1,293.01	46.03	29.094		
12,700.00	11,480.00	11,246.00	11,230.20	25.97	19.90	-73.87	360.68	1,128.09	1,414.73	1,368.50	46.22	30.606		
12,800.00	11,480.00	11,246.00	11,230.20	26.03	19.90	-73.87	360.68	1,128.09	1,493.28	1,446.91	46.37	32.202		
12,900.00	11,480.00	11,228.05	11,212.74	26.10	19.75	-72.82	356.56	1,128.54	1,574.00	1,527.53	46.47	33.870		
13,000.00	11,480.00	11,220.39	11,205.25	26.18	19.69	-72.37	354.95	1,128.69	1,656.78	1,610.24	46.55	35.594		
13,100.00	11,480.00	11,199.00	11,184.24	26.26	19.51	-71.12	350.94	1,128.95	1,741.47	1,694.88	46.59	37.376		
13,200.00	11,480.00	11,199.00	11,184.24	26.36	19.51	-71.12	350.94	1,128.95	1,827.35	1,780.72	46.63	39.188		
13,300.00	11,480.00	11,199.00	11,184.24	26.46	19.51	-71.12	350.94	1,128.95	1,914.60	1,867.95	46.65	41.038		
13,400.00	11,480.00	11,199.00	11,184.24	26.58	19.51	-71.12	350.94	1,128.95	2,003.05	1,956.38	46.67	42.920		
13,500.00	11,480.00	11,199.00	11,184.24	26.71	19.51	-71.12	350.94	1,128.95	2,092.53	2,045.85	46.68	44.830		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - ESMERALDA 24 FEDERAL 1 (P&A) - Wellbore #1 - Wellbore #1													Offset Site Error: 0.00 usft		
Survey Program: 1000-INC-ONLY				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 50.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,300.00	11,480.00	11,423.43	11,480.00	60.04	196.93	-90.00	-8,706.07	1,843.15	2,065.58	1,822.20	243.38	8.487			
19,400.00	11,480.00	11,423.43	11,480.00	60.77	196.93	-90.00	-8,706.07	1,843.15	2,000.28	1,755.23	245.04	8.163			
19,500.00	11,480.00	11,423.43	11,480.00	61.51	196.93	-90.00	-8,706.07	1,843.15	1,937.93	1,691.14	246.79	7.853			
19,600.00	11,480.00	11,423.43	11,480.00	62.25	196.93	-90.00	-8,706.07	1,843.15	1,878.85	1,630.24	248.61	7.557			
19,700.00	11,480.00	11,423.43	11,480.00	62.98	196.93	-90.00	-8,706.07	1,843.15	1,823.33	1,572.84	250.49	7.279			
19,800.00	11,480.00	11,423.43	11,480.00	63.72	196.93	-90.00	-8,706.07	1,843.15	1,771.73	1,519.31	252.42	7.019			
19,900.00	11,480.00	11,423.43	11,480.00	64.46	196.93	-90.00	-8,706.07	1,843.15	1,724.39	1,470.01	254.38	6.779			
20,000.00	11,480.00	11,423.43	11,480.00	65.20	196.93	-90.00	-8,706.07	1,843.15	1,681.66	1,425.33	256.34	6.560			
20,100.00	11,480.00	11,423.43	11,480.00	65.94	196.93	-90.00	-8,706.07	1,843.15	1,643.92	1,385.65	258.27	6.365			
20,200.00	11,480.00	11,423.43	11,480.00	66.69	196.93	-90.00	-8,706.07	1,843.15	1,611.51	1,351.37	260.13	6.195			
20,300.00	11,480.00	11,423.43	11,480.00	67.43	196.93	-90.00	-8,706.07	1,843.15	1,584.75	1,322.85	261.90	6.051			
20,400.00	11,480.00	11,423.43	11,480.00	68.17	196.93	-90.00	-8,706.07	1,843.15	1,563.94	1,300.41	263.53	5.935			
20,500.00	11,480.00	11,423.43	11,480.00	68.91	196.93	-90.00	-8,706.07	1,843.15	1,549.32	1,284.33	264.99	5.847			
20,600.00	11,480.00	11,423.43	11,480.00	69.66	196.93	-90.00	-8,706.07	1,843.15	1,541.07	1,274.82	266.25	5.788			
20,677.59	11,480.00	11,423.43	11,480.00	70.24	196.93	-90.00	-8,706.07	1,843.15	1,539.11	1,272.04	267.07	5.763	CC		
20,700.00	11,480.00	11,423.43	11,480.00	70.40	196.93	-90.00	-8,706.07	1,843.15	1,539.28	1,272.00	267.28	5.759	ES, SF		
20,800.00	11,480.00	11,423.43	11,480.00	71.15	196.93	-90.00	-8,706.07	1,843.15	1,543.97	1,275.91	268.06	5.760			
20,900.00	11,480.00	11,423.43	11,480.00	71.90	196.93	-90.00	-8,706.07	1,843.15	1,555.10	1,286.50	268.60	5.790			
21,000.00	11,480.00	11,423.43	11,480.00	72.64	196.93	-90.00	-8,706.07	1,843.15	1,572.52	1,303.63	268.89	5.848			
21,100.00	11,480.00	11,423.43	11,480.00	73.39	196.93	-90.00	-8,706.07	1,843.15	1,596.03	1,327.07	268.95	5.934			
21,200.00	11,480.00	11,423.43	11,480.00	74.14	196.93	-90.00	-8,706.07	1,843.15	1,625.36	1,356.55	268.80	6.047			
21,300.00	11,480.00	11,423.43	11,480.00	74.88	196.93	-90.00	-8,706.07	1,843.15	1,660.20	1,391.73	268.46	6.184			
21,400.00	11,480.00	11,423.43	11,480.00	75.63	196.93	-90.00	-8,706.07	1,843.15	1,700.22	1,432.25	267.97	6.345			
21,500.00	11,480.00	11,423.43	11,480.00	76.38	196.93	-90.00	-8,706.07	1,843.15	1,745.06	1,477.71	267.34	6.527			
21,600.00	11,480.00	11,423.43	11,480.00	77.13	196.93	-90.00	-8,706.07	1,843.15	1,794.35	1,527.74	266.62	6.730			
21,700.00	11,480.00	11,423.43	11,480.00	77.88	196.93	-90.00	-8,706.07	1,843.15	1,847.75	1,581.94	265.81	6.951			
21,800.00	11,480.00	11,423.43	11,480.00	78.63	196.93	-90.00	-8,706.07	1,843.15	1,904.91	1,639.95	264.96	7.189			
21,900.00	11,480.00	11,423.43	11,480.00	79.38	196.93	-90.00	-8,706.07	1,843.15	1,965.49	1,701.42	264.07	7.443			
22,000.00	11,480.00	11,423.43	11,480.00	80.13	196.93	-90.00	-8,706.07	1,843.15	2,029.20	1,766.03	263.16	7.711			
22,100.00	11,480.00	11,423.43	11,480.00	80.89	196.93	-90.00	-8,706.07	1,843.15	2,095.74	1,833.48	262.26	7.991			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - LA RICA FEDERAL 1 (P&A) - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft	
Survey Program: 1000-INC-ONLY				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	50.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,000.00	11,480.00	11,455.43	11,480.00	26.18	197.50	-90.00	-3,106.09	474.95	2,080.86	1,859.18	221.68	9.387			
13,100.00	11,480.00	11,455.43	11,480.00	26.26	197.50	-90.00	-3,106.09	474.95	1,981.32	1,759.66	221.67	8.938			
13,200.00	11,480.00	11,455.43	11,480.00	26.36	197.50	-90.00	-3,106.09	474.95	1,881.84	1,660.18	221.66	8.490			
13,300.00	11,480.00	11,455.43	11,480.00	26.46	197.50	-90.00	-3,106.09	474.95	1,782.41	1,560.77	221.64	8.042			
13,400.00	11,480.00	11,455.43	11,480.00	26.58	197.50	-90.00	-3,106.09	474.95	1,683.05	1,461.42	221.63	7.594			
13,500.00	11,480.00	11,455.43	11,480.00	26.71	197.50	-90.00	-3,106.09	474.95	1,583.77	1,362.16	221.61	7.147			
13,600.00	11,480.00	11,455.43	11,480.00	26.85	197.50	-90.00	-3,106.09	474.95	1,484.58	1,263.00	221.58	6.700			
13,700.00	11,480.00	11,455.43	11,480.00	27.00	197.50	-90.00	-3,106.09	474.95	1,385.52	1,163.96	221.55	6.254			
13,800.00	11,480.00	11,455.43	11,480.00	27.18	197.50	-90.00	-3,106.09	474.95	1,286.59	1,065.08	221.51	5.808			
13,900.00	11,480.00	11,455.43	11,480.00	27.37	197.50	-90.00	-3,106.09	474.95	1,187.85	966.38	221.47	5.364			
14,000.00	11,480.00	11,455.43	11,480.00	27.58	197.50	-90.00	-3,106.09	474.95	1,089.34	867.92	221.41	4.920			
14,100.00	11,480.00	11,455.43	11,480.00	27.82	197.50	-90.00	-3,106.09	474.95	991.12	769.78	221.34	4.478			
14,200.00	11,480.00	11,455.43	11,480.00	28.08	197.50	-90.00	-3,106.09	474.95	893.30	672.05	221.26	4.037			
14,300.00	11,480.00	11,455.43	11,480.00	28.37	197.50	-90.00	-3,106.09	474.95	796.03	574.87	221.15	3.599			
14,400.00	11,480.00	11,455.43	11,480.00	28.68	197.50	-90.00	-3,106.09	474.95	699.52	478.49	221.03	3.165			
14,500.00	11,480.00	11,455.43	11,480.00	29.02	197.50	-90.00	-3,106.09	474.95	604.15	383.27	220.88	2.735			
14,600.00	11,480.00	11,455.43	11,480.00	29.39	197.50	-90.00	-3,106.09	474.95	510.56	289.83	220.73	2.313			
14,700.00	11,480.00	11,455.43	11,480.00	29.79	197.50	-90.00	-3,106.09	474.95	419.92	199.30	220.62	1.903	Collision Risk Procedures Req.		
14,800.00	11,480.00	11,455.43	11,480.00	30.22	197.50	-90.00	-3,106.09	474.95	334.67	113.91	220.76	1.516	Collision Risk Procedures Req.		
14,900.00	11,480.00	11,455.43	11,480.00	30.67	197.50	-90.00	-3,106.09	474.95	260.14	38.38	221.75	1.173	Collision Avoidance Req.		
15,000.00	11,480.00	11,455.43	11,480.00	31.15	197.50	-90.00	-3,106.09	474.95	208.18	-16.49	224.68	0.927	No-Go Zone - Stop Drilling		
15,071.66	11,480.00	11,455.43	11,480.00	31.51	197.50	-90.00	-3,106.09	474.95	195.46	-32.09	227.55	0.859	No-Go Zone - Stop Drilling, CC, ES, SF		
15,100.00	11,480.00	11,455.43	11,480.00	31.65	197.50	-90.00	-3,106.09	474.95	197.51	-30.95	228.45	0.865	No-Go Zone - Stop Drilling		
15,200.00	11,480.00	11,455.43	11,480.00	32.17	197.50	-90.00	-3,106.09	474.95	233.83	4.30	229.53	1.019	Collision Avoidance Req.		
15,300.00	11,480.00	11,455.43	11,480.00	32.71	197.50	-90.00	-3,106.09	474.95	300.57	71.81	228.77	1.314	Collision Avoidance Req.		
15,400.00	11,480.00	11,455.43	11,480.00	33.27	197.50	-90.00	-3,106.09	474.95	382.12	154.29	227.83	1.677	Collision Risk Procedures Req.		
15,500.00	11,480.00	11,455.43	11,480.00	33.84	197.50	-90.00	-3,106.09	474.95	470.83	243.73	227.10	2.073			
15,600.00	11,480.00	11,455.43	11,480.00	34.43	197.50	-90.00	-3,106.09	474.95	563.34	336.76	226.58	2.486			
15,700.00	11,480.00	11,455.43	11,480.00	35.03	197.50	-90.00	-3,106.09	474.95	658.04	431.84	226.20	2.909			
15,800.00	11,480.00	11,455.43	11,480.00	35.64	197.50	-90.00	-3,106.09	474.95	754.11	528.18	225.93	3.338			
15,900.00	11,480.00	11,455.43	11,480.00	36.26	197.50	-90.00	-3,106.09	474.95	851.09	625.35	225.74	3.770			
16,000.00	11,480.00	11,455.43	11,480.00	36.89	197.50	-90.00	-3,106.09	474.95	948.70	723.09	225.60	4.205			
16,100.00	11,480.00	11,455.43	11,480.00	37.53	197.50	-90.00	-3,106.09	474.95	1,046.75	821.25	225.50	4.642			
16,200.00	11,480.00	11,455.43	11,480.00	38.17	197.50	-90.00	-3,106.09	474.95	1,145.15	919.71	225.44	5.080			
16,300.00	11,480.00	11,455.43	11,480.00	38.83	197.50	-90.00	-3,106.09	474.95	1,243.80	1,018.40	225.39	5.518			
16,400.00	11,480.00	11,455.43	11,480.00	39.48	197.50	-90.00	-3,106.09	474.95	1,342.65	1,117.28	225.37	5.958			
16,500.00	11,480.00	11,455.43	11,480.00	40.15	197.50	-90.00	-3,106.09	474.95	1,441.65	1,216.30	225.36	6.397			
16,600.00	11,480.00	11,455.43	11,480.00	40.82	197.50	-90.00	-3,106.09	474.95	1,540.79	1,315.43	225.36	6.837			
16,700.00	11,480.00	11,455.43	11,480.00	41.50	197.50	-90.00	-3,106.09	474.95	1,640.03	1,414.66	225.37	7.277			
16,800.00	11,480.00	11,455.43	11,480.00	42.18	197.50	-90.00	-3,106.09	474.95	1,739.36	1,513.96	225.40	7.717			
16,900.00	11,480.00	11,455.43	11,480.00	42.86	197.50	-90.00	-3,106.09	474.95	1,838.76	1,613.33	225.43	8.157			
17,000.00	11,480.00	11,455.43	11,480.00	43.55	197.50	-90.00	-3,106.09	474.95	1,938.22	1,712.76	225.47	8.597			
17,100.00	11,480.00	11,455.43	11,480.00	44.24	197.50	-90.00	-3,106.09	474.95	2,037.74	1,812.23	225.51	9.036			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 101H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.50	0.50	90.00	0.00	200.00	200.00				
100.00	100.00	100.00	100.00	0.66	0.66	90.00	0.00	200.00	200.00	198.68	1.32	151.840	
121.13	121.13	121.13	121.13	0.78	0.78	90.00	0.00	200.00	200.00	198.43	1.57	127.691	
200.00	200.00	200.00	200.00	1.35	1.35	90.00	0.00	200.00	200.00	197.30	2.70	74.151	
221.13	221.13	221.13	221.13	1.45	1.45	90.00	0.00	200.00	200.00	197.11	2.89	69.148	
300.00	300.00	300.00	300.00	1.82	1.82	90.00	0.00	200.00	200.00	196.37	3.63	55.034	
315.05	315.05	315.05	315.05	1.87	1.87	90.00	0.00	200.00	200.00	196.25	3.75	53.392	
400.00	400.00	400.00	400.00	2.19	2.19	90.00	0.00	200.00	200.00	195.62	4.38	45.653	
426.16	426.16	426.16	426.16	2.27	2.27	90.00	0.00	200.00	200.00	195.45	4.55	43.971	
500.00	500.00	500.00	500.00	2.51	2.51	90.00	0.00	200.00	200.00	194.98	5.02	39.817	
521.13	521.13	521.13	521.13	2.57	2.57	90.00	0.00	200.00	200.00	194.86	5.14	38.880	
600.00	600.00	600.00	600.00	2.80	2.80	90.00	0.00	200.00	200.00	194.40	5.60	35.736	
621.13	621.13	621.13	621.13	2.85	2.85	90.00	0.00	200.00	200.00	194.29	5.71	35.042	
700.00	700.00	700.00	700.00	3.06	3.06	90.00	0.00	200.00	200.00	193.88	6.12	32.674	
721.13	721.13	721.13	721.13	3.11	3.11	90.00	0.00	200.00	200.00	193.78	6.22	32.134	
800.00	800.00	800.00	800.00	3.30	3.30	90.00	0.00	200.00	200.00	193.39	6.61	30.266	
821.13	821.13	821.13	821.13	3.35	3.35	90.00	0.00	200.00	200.00	193.30	6.70	29.830	
900.00	900.00	900.00	900.00	3.53	3.53	90.00	0.00	200.00	200.00	192.93	7.07	28.308	
921.13	921.13	921.13	921.13	3.58	3.58	90.00	0.00	200.00	200.00	192.84	7.16	27.946	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	90.00	0.00	200.00	200.00	192.50	7.50	26.673	
1,021.13	1,021.13	1,021.13	1,021.13	3.79	3.79	90.00	0.00	200.00	200.00	192.41	7.59	26.367	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	90.00	0.00	200.00	200.00	192.09	7.91	25.282	
1,121.13	1,121.13	1,121.13	1,121.13	4.00	4.00	90.00	0.00	200.00	200.00	192.01	7.99	25.018	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.00	0.00	200.00	200.00	191.69	8.31	24.079	
1,221.13	1,221.13	1,221.13	1,221.13	4.19	4.19	90.00	0.00	200.00	200.00	191.61	8.39	23.848	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	90.00	0.00	200.00	200.00	191.31	8.69	23.024	
1,321.13	1,321.13	1,321.13	1,321.13	4.38	4.38	90.00	0.00	200.00	200.00	191.24	8.76	22.820	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	90.00	0.00	200.00	200.00	190.95	9.05	22.090	
1,421.13	1,421.13	1,421.13	1,421.13	4.56	4.56	90.00	0.00	200.00	200.00	190.87	9.13	21.908	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	90.00	0.00	200.00	200.00	190.59	9.41	21.254	
1,600.00	1,599.98	1,598.21	1,598.19	5.06	5.05	68.72	1.62	200.44	199.81	190.04	9.77	20.443	
1,700.00	1,699.84	1,696.42	1,696.26	5.70	5.68	68.70	6.50	201.76	199.26	189.05	10.20	19.529	
1,800.00	1,799.45	1,794.63	1,794.11	6.30	6.27	68.68	14.61	203.95	198.33	187.71	10.62	18.673	
1,900.00	1,898.70	1,892.84	1,891.61	6.88	6.84	68.65	25.96	207.02	197.03	186.00	11.03	17.862	
2,000.00	1,997.53	1,991.04	1,988.64	7.10	7.36	68.49	40.52	210.97	195.51	184.20	11.31	17.281	
2,100.00	2,096.28	2,090.92	2,087.03	7.32	7.58	67.90	57.14	215.46	194.33	182.70	11.62	16.717	
2,200.00	2,195.04	2,190.90	2,185.51	7.57	7.82	67.30	73.77	219.96	193.17	181.19	11.98	16.123	
2,300.00	2,293.79	2,290.87	2,283.98	7.83	8.08	66.70	90.40	224.46	192.03	179.68	12.35	15.553	
2,400.00	2,392.54	2,390.84	2,382.46	8.12	8.36	66.09	107.03	228.96	190.91	178.18	12.72	15.006	
2,500.00	2,491.30	2,490.81	2,480.94	8.41	8.65	65.47	123.66	233.46	189.81	176.70	13.11	14.481	
2,600.00	2,590.05	2,590.79	2,579.41	8.73	8.96	64.85	140.29	237.96	188.73	175.23	13.50	13.978	
2,700.00	2,688.81	2,690.76	2,677.89	9.05	9.28	64.22	156.92	242.46	187.68	173.77	13.91	13.493	
2,800.00	2,787.56	2,790.73	2,776.37	9.38	9.61	63.58	173.56	246.96	186.65	172.32	14.33	13.027	
2,900.00	2,886.31	2,890.71	2,874.84	9.72	9.95	62.93	190.19	251.46	185.64	170.88	14.76	12.578	
3,000.00	2,985.07	2,990.68	2,973.32	10.07	10.29	62.28	206.82	255.97	184.66	169.46	15.20	12.146	
3,100.00	3,083.82	3,090.65	3,071.80	10.42	10.65	61.62	223.45	260.47	183.70	168.04	15.66	11.729	
3,200.00	3,182.58	3,190.63	3,170.28	10.79	11.02	60.96	240.08	264.97	182.77	166.63	16.13	11.328	
3,300.00	3,281.33	3,290.60	3,268.75	11.16	11.39	60.28	256.71	269.47	181.86	165.24	16.62	10.941	
3,400.00	3,380.08	3,390.57	3,367.23	11.53	11.76	59.61	273.35	273.97	180.97	163.85	17.13	10.567	
3,500.00	3,478.84	3,490.54	3,465.71	11.91	12.14	58.92	289.98	278.47	180.12	162.47	17.64	10.208	
3,600.00	3,577.59	3,590.52	3,564.18	12.30	12.53	58.23	306.61	282.97	179.28	161.10	18.18	9.861	
3,700.00	3,676.34	3,690.49	3,662.66	12.68	12.92	57.53	323.24	287.47	178.48	159.75	18.73	9.527	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 101H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,808.66	8,753.18	8,811.49	8,753.18	25.65	24.25	89.59	675.98	382.92	120.00	89.49	30.51	3.933	ES, SF
8,900.00	8,844.52	8,901.15	8,842.75	25.69	24.18	90.87	673.29	383.29	120.40	90.13	30.26	3.979	
9,000.00	8,944.52	8,995.19	8,935.18	25.74	24.14	98.55	656.68	385.56	124.37	95.67	28.70	4.333	
9,100.00	9,044.52	9,081.69	9,016.74	25.79	24.06	110.28	628.37	389.44	137.72	109.59	28.12	4.897	
9,200.00	9,144.52	9,158.16	9,084.54	25.85	23.96	121.88	593.46	394.22	165.85	136.15	29.70	5.584	
9,300.00	9,244.52	9,224.01	9,138.73	25.90	23.86	131.03	556.46	399.29	209.45	177.68	31.77	6.592	
9,400.00	9,344.52	9,279.90	9,181.11	25.95	23.78	137.59	520.39	404.23	265.73	232.45	33.28	7.985	
9,500.00	9,444.52	9,327.09	9,213.99	26.00	23.71	142.22	486.88	408.82	331.46	297.22	34.24	9.680	
9,600.00	9,544.52	9,366.96	9,239.53	26.05	23.64	145.53	456.55	412.98	404.12	369.23	34.89	11.582	
9,700.00	9,644.52	9,400.00	9,259.03	26.10	23.59	147.90	430.13	416.60	481.91	446.53	35.38	13.620	
9,800.00	9,744.52	9,429.64	9,275.19	26.15	23.55	149.78	405.53	419.97	563.57	527.75	35.82	15.732	
9,900.00	9,844.52	9,450.00	9,285.54	26.20	23.52	150.95	388.15	422.35	648.25	612.05	36.20	17.909	
10,000.00	9,944.52	9,475.89	9,297.79	26.25	23.49	152.30	365.56	425.44	735.19	698.56	36.63	20.071	
10,100.00	10,044.52	9,500.00	9,308.26	26.31	23.46	153.44	344.04	428.39	824.06	787.00	37.06	22.238	
10,200.00	10,144.52	9,500.00	9,308.26	26.36	23.46	153.44	344.04	428.39	914.50	877.14	37.37	24.473	
10,300.00	10,244.52	9,525.51	9,318.34	26.41	23.43	154.54	320.83	431.57	1,005.88	968.05	37.82	26.594	
10,400.00	10,344.52	9,550.00	9,327.02	26.46	23.40	155.51	298.14	434.68	1,098.60	1,060.33	38.27	28.704	
10,500.00	10,444.52	9,550.00	9,327.02	26.52	23.40	155.51	298.14	434.68	1,191.82	1,153.19	38.63	30.854	
10,600.00	10,544.52	9,550.00	9,327.02	26.57	23.40	155.51	298.14	434.68	1,286.05	1,247.06	38.99	32.984	
10,700.00	10,644.52	9,569.59	9,333.25	26.62	23.39	156.21	279.74	437.20	1,380.63	1,341.19	39.43	35.012	
10,800.00	10,744.52	9,578.05	9,335.75	26.67	23.38	156.50	271.73	438.30	1,475.85	1,436.01	39.84	37.047	
10,900.00	10,844.52	9,600.00	9,341.66	26.73	23.36	157.21	250.79	441.16	1,571.76	1,531.46	40.29	39.008	
11,000.00	10,944.50	9,600.00	9,341.66	26.72	23.36	-18.48	250.79	441.16	1,667.29	1,626.63	40.67	40.998	
11,100.00	11,043.21	9,600.00	9,341.66	26.63	23.36	-12.41	250.79	441.16	1,758.81	1,717.72	41.09	42.808	
11,200.00	11,137.78	9,600.00	9,341.66	26.50	23.36	-9.38	250.79	441.16	1,843.63	1,802.07	41.56	44.361	
11,300.00	11,225.34	9,650.00	9,352.08	26.34	23.33	-7.69	202.36	447.80	1,919.55	1,877.27	42.28	45.405	
11,400.00	11,303.23	9,650.00	9,352.08	26.17	23.33	-6.61	202.36	447.80	1,984.77	1,941.89	42.89	46.280	
11,500.00	11,369.09	9,650.00	9,352.08	25.99	23.33	-5.90	202.36	447.80	2,039.38	1,995.80	43.57	46.805	
11,600.00	11,420.90	9,700.00	9,358.20	25.84	23.31	-5.57	153.21	454.53	2,081.31	2,036.81	44.50	46.767	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.50	0.50	90.00	0.00	260.00	260.00				
100.00	100.00	100.00	100.00	0.66	0.66	90.00	0.00	260.00	260.00	258.68	1.32	197.392	
200.00	200.00	200.00	200.00	1.35	1.35	90.00	0.00	260.00	260.00	257.30	2.70	96.396	
300.00	300.00	300.00	300.00	1.82	1.82	90.00	0.00	260.00	260.00	256.37	3.63	71.544	
400.00	400.00	400.00	400.00	2.19	2.19	90.00	0.00	260.00	260.00	255.62	4.38	59.348	
425.76	425.76	425.76	425.76	2.27	2.27	90.00	0.00	260.00	260.00	255.45	4.55	57.194	
500.00	500.00	500.00	500.00	2.51	2.51	90.00	0.00	260.00	260.00	254.98	5.02	51.761	
600.00	600.00	600.00	600.00	2.80	2.80	90.00	0.00	260.00	260.00	254.40	5.60	46.456	
700.00	700.00	700.00	700.00	3.06	3.06	90.00	0.00	260.00	260.00	253.88	6.12	42.476	
800.00	800.00	800.00	800.00	3.30	3.30	90.00	0.00	260.00	260.00	253.39	6.61	39.346	
900.00	900.00	900.00	900.00	3.53	3.53	90.00	0.00	260.00	260.00	252.93	7.07	36.800	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	90.00	0.00	260.00	260.00	252.50	7.50	34.675	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	90.00	0.00	260.00	260.00	252.09	7.91	32.867	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.00	0.00	260.00	260.00	251.69	8.31	31.302	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	90.00	0.00	260.00	260.00	251.31	8.69	29.931	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	90.00	0.00	260.00	260.00	250.95	9.05	28.717	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	90.00	0.00	260.00	260.00	250.59	9.41	27.631 CC	
1,600.00	1,599.98	1,596.31	1,596.29	5.06	5.04	68.74	1.47	260.68	260.08	250.29	9.78	26.586	
1,700.00	1,699.84	1,692.62	1,692.47	5.70	5.65	68.80	5.87	262.74	260.31	250.05	10.26	25.380	
1,800.00	1,799.45	1,788.93	1,788.44	6.30	6.23	68.91	13.19	266.15	260.69	249.98	10.72	24.330 ES	
1,900.00	1,898.70	1,885.26	1,884.10	6.88	6.79	69.05	23.44	270.93	261.23	250.08	11.16	23.411	
2,000.00	1,997.53	1,977.58	1,975.47	7.10	7.13	69.38	35.00	277.39	262.72	251.24	11.48	22.879	
2,100.00	2,096.28	2,069.01	2,065.71	7.32	7.40	69.81	46.32	286.69	267.22	255.30	11.92	22.419	
2,200.00	2,195.04	2,160.08	2,155.27	7.57	7.72	70.24	57.44	298.82	274.91	262.52	12.38	22.197 SF	
2,300.00	2,293.79	2,250.61	2,243.90	7.83	8.07	70.66	68.31	313.72	285.77	272.93	12.85	22.243	
2,400.00	2,392.54	2,340.42	2,331.34	8.12	8.42	71.04	78.91	331.28	299.78	286.46	13.32	22.513	
2,500.00	2,491.30	2,429.36	2,417.36	8.41	8.75	71.39	89.22	351.38	316.88	303.14	13.74	23.062	
2,600.00	2,590.05	2,524.19	2,508.55	8.73	8.99	71.72	100.05	375.03	336.35	322.25	14.10	23.861	
2,700.00	2,688.81	2,622.22	2,602.78	9.05	9.26	72.03	111.23	399.62	355.99	341.48	14.51	24.539	
2,800.00	2,787.56	2,720.26	2,697.02	9.38	9.56	72.30	122.41	424.22	375.64	360.70	14.94	25.138	
2,900.00	2,886.31	2,818.29	2,791.26	9.72	9.87	72.54	133.60	448.81	395.30	379.91	15.39	25.679	
3,000.00	2,985.07	2,916.33	2,885.50	10.07	10.20	72.77	144.78	473.41	414.96	399.11	15.86	26.167	
3,100.00	3,083.82	3,014.37	2,979.74	10.42	10.53	72.97	155.96	498.00	434.63	418.30	16.33	26.608	
3,200.00	3,182.58	3,112.40	3,073.98	10.79	10.89	73.15	167.14	522.59	454.31	437.49	16.82	27.008	
3,300.00	3,281.33	3,210.44	3,168.22	11.16	11.25	73.32	178.33	547.19	473.99	456.67	17.32	27.371	
3,400.00	3,380.08	3,308.47	3,262.46	11.53	11.62	73.48	189.51	571.78	493.67	475.85	17.82	27.701	
3,500.00	3,478.84	3,406.51	3,356.70	11.91	12.01	73.62	200.69	596.38	513.36	495.02	18.33	28.001	
3,600.00	3,577.59	3,504.54	3,450.94	12.30	12.40	73.76	211.87	620.97	533.05	514.19	18.85	28.275	
3,700.00	3,676.34	3,602.58	3,545.18	12.68	12.80	73.88	223.06	645.56	552.74	533.36	19.38	28.525	
3,800.00	3,775.10	3,700.61	3,639.41	13.08	13.20	74.00	234.24	670.16	572.43	552.52	19.91	28.754	
3,900.00	3,873.85	3,798.65	3,733.65	13.47	13.61	74.10	245.42	694.75	592.13	571.68	20.44	28.965	
4,000.00	3,972.61	3,896.68	3,827.89	13.87	14.03	74.21	256.60	719.35	611.83	590.84	20.98	29.158	
4,100.00	4,071.36	3,994.72	3,922.13	14.27	14.45	74.30	267.79	743.94	631.52	610.00	21.53	29.336	
4,200.00	4,170.11	4,092.75	4,016.37	14.67	14.88	74.39	278.97	768.54	651.23	629.15	22.08	29.500	
4,300.00	4,268.87	4,190.79	4,110.61	15.08	15.31	74.47	290.15	793.13	670.93	648.30	22.63	29.653	
4,400.00	4,367.62	4,288.82	4,204.85	15.49	15.75	74.55	301.33	817.72	690.63	667.45	23.18	29.793	
4,500.00	4,466.38	4,386.86	4,299.09	15.90	16.19	74.63	312.52	842.32	710.34	686.60	23.74	29.924	
4,600.00	4,565.13	4,484.89	4,393.33	16.31	16.63	74.70	323.70	866.91	730.04	705.75	24.30	30.046	
4,700.00	4,663.88	4,582.93	4,487.57	16.72	17.08	74.76	334.88	891.51	749.75	724.89	24.86	30.159	
4,800.00	4,762.64	4,680.97	4,581.80	17.14	17.52	74.83	346.06	916.10	769.46	744.03	25.42	30.265	
4,900.00	4,861.39	4,779.00	4,676.04	17.56	17.98	74.89	357.25	940.69	789.17	763.18	25.99	30.363	
5,000.00	4,960.15	4,877.04	4,770.28	17.98	18.43	74.94	368.43	965.29	808.88	782.32	26.56	30.455	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.00	10,144.52	9,600.00	9,286.02	26.36	32.98	101.16	392.40	1,696.50	1,694.73	1,647.37	47.36	35.785	
10,300.00	10,244.52	9,600.00	9,286.02	26.41	32.98	101.16	392.40	1,696.50	1,747.51	1,699.91	47.60	36.710	
10,400.00	10,344.52	9,626.87	9,298.67	26.46	32.97	102.02	369.00	1,700.21	1,803.69	1,755.96	47.73	37.792	
10,500.00	10,444.52	9,650.00	9,308.66	26.52	32.96	102.78	348.39	1,703.47	1,863.36	1,815.48	47.88	38.915	
10,600.00	10,544.52	9,650.00	9,308.66	26.57	32.96	102.78	348.39	1,703.47	1,925.95	1,877.84	48.11	40.033	
10,700.00	10,644.52	9,650.00	9,308.66	26.62	32.96	102.78	348.39	1,703.47	1,991.59	1,943.27	48.32	41.213	
10,800.00	10,744.52	9,675.84	9,318.82	26.67	32.96	103.63	324.93	1,707.19	2,059.41	2,010.90	48.50	42.458	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 201H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.50	0.50	90.00	0.00	220.00	220.00				
100.00	100.00	100.00	100.00	0.66	0.66	90.00	0.00	220.00	220.00	218.68	1.32	167.024	
121.13	121.13	121.13	121.13	0.78	0.78	90.00	0.00	220.00	220.00	218.43	1.57	140.461	
200.00	200.00	200.00	200.00	1.35	1.35	90.00	0.00	220.00	220.00	217.30	2.70	81.566	
221.13	221.13	221.13	221.13	1.45	1.45	90.00	0.00	220.00	220.00	217.11	2.89	76.063	
300.00	300.00	300.00	300.00	1.82	1.82	90.00	0.00	220.00	220.00	216.37	3.63	60.537	
400.00	400.00	400.00	400.00	2.19	2.19	90.00	0.00	220.00	220.00	215.62	4.38	50.218	
426.16	426.16	426.16	426.16	2.27	2.27	90.00	0.00	220.00	220.00	215.45	4.55	48.368	
500.00	500.00	500.00	500.00	2.51	2.51	90.00	0.00	220.00	220.00	214.98	5.02	43.798	
521.13	521.13	521.13	521.13	2.57	2.57	90.00	0.00	220.00	220.00	214.86	5.14	42.768	
600.00	600.00	600.00	600.00	2.80	2.80	90.00	0.00	220.00	220.00	214.40	5.60	39.309	
621.13	621.13	621.13	621.13	2.85	2.85	90.00	0.00	220.00	220.00	214.29	5.71	38.547	
700.00	700.00	700.00	700.00	3.06	3.06	90.00	0.00	220.00	220.00	213.88	6.12	35.941	
721.13	721.13	721.13	721.13	3.11	3.11	90.00	0.00	220.00	220.00	213.78	6.22	35.348	
800.00	800.00	800.00	800.00	3.30	3.30	90.00	0.00	220.00	220.00	213.39	6.61	33.293	
821.13	821.13	821.13	821.13	3.35	3.35	90.00	0.00	220.00	220.00	213.30	6.70	32.813	
900.00	900.00	900.00	900.00	3.53	3.53	90.00	0.00	220.00	220.00	212.93	7.07	31.138	
921.13	921.13	921.13	921.13	3.58	3.58	90.00	0.00	220.00	220.00	212.84	7.16	30.741	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	90.00	0.00	220.00	220.00	212.50	7.50	29.341	
1,021.13	1,021.13	1,021.13	1,021.13	3.79	3.79	90.00	0.00	220.00	220.00	212.41	7.59	29.003	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	90.00	0.00	220.00	220.00	212.09	7.91	27.810	
1,121.13	1,121.13	1,121.13	1,121.13	4.00	4.00	90.00	0.00	220.00	220.00	212.01	7.99	27.520	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.00	0.00	220.00	220.00	211.69	8.31	26.487	
1,221.13	1,221.13	1,221.13	1,221.13	4.19	4.19	90.00	0.00	220.00	220.00	211.61	8.39	26.233	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	90.00	0.00	220.00	220.00	211.31	8.69	25.327	
1,321.13	1,321.13	1,321.13	1,321.13	4.38	4.38	90.00	0.00	220.00	220.00	211.24	8.76	25.102	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	90.00	0.00	220.00	220.00	210.95	9.05	24.299	
1,421.13	1,421.13	1,421.13	1,421.13	4.56	4.56	90.00	0.00	220.00	220.00	210.87	9.13	24.099	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	90.00	0.00	220.00	220.00	210.59	9.41	23.380	
1,600.00	1,599.98	1,597.29	1,597.27	5.06	5.04	68.73	1.54	220.60	219.98	210.20	9.78	22.494	
1,700.00	1,699.84	1,694.59	1,694.44	5.70	5.66	68.77	6.16	222.39	219.93	209.69	10.24	21.488	
1,800.00	1,799.45	1,791.89	1,791.38	6.30	6.25	68.82	13.85	225.39	219.84	209.16	10.68	20.590	
1,900.00	1,898.70	1,889.20	1,888.00	6.88	6.81	68.90	24.60	229.57	219.72	208.61	11.11	19.782	
1,963.99	1,962.01	1,951.47	1,949.60	7.02	7.16	68.89	33.09	232.87	219.74	208.44	11.30	19.439	
2,000.00	1,997.53	1,986.52	1,984.18	7.10	7.35	68.91	38.41	234.94	219.70	208.29	11.41	19.250 CC	
2,100.00	2,096.28	2,083.75	2,079.72	7.32	7.90	68.24	55.24	241.48	220.74	208.93	11.81	18.691	
2,200.00	2,195.04	2,183.07	2,176.86	7.57	8.28	67.01	74.52	248.98	222.71	210.47	12.24	18.196	
2,300.00	2,293.79	2,282.93	2,274.51	7.83	8.55	65.78	93.96	256.55	224.80	212.14	12.66	17.750	
2,400.00	2,392.54	2,382.79	2,372.17	8.12	8.82	64.57	113.41	264.11	227.00	213.89	13.10	17.322	
2,500.00	2,491.30	2,482.65	2,469.83	8.41	9.11	63.39	132.86	271.67	229.29	215.73	13.56	16.906	
2,600.00	2,590.05	2,582.52	2,567.49	8.73	9.41	62.23	152.30	279.24	231.68	217.64	14.04	16.501	
2,700.00	2,688.81	2,682.38	2,665.15	9.05	9.72	61.09	171.75	286.80	234.17	219.63	14.54	16.107	
2,800.00	2,787.56	2,782.24	2,762.81	9.38	10.05	59.98	191.20	294.37	236.74	221.68	15.06	15.723	
2,900.00	2,886.31	2,882.10	2,860.46	9.72	10.39	58.89	210.64	301.93	239.40	223.81	15.60	15.351	
3,000.00	2,985.07	2,981.97	2,958.12	10.07	10.74	57.83	230.09	309.49	242.15	225.99	16.16	14.989	
3,100.00	3,083.82	3,081.83	3,055.78	10.42	11.09	56.79	249.53	317.06	244.98	228.24	16.73	14.639	
3,200.00	3,182.58	3,181.69	3,153.44	10.79	11.46	55.78	268.98	324.62	247.88	230.55	17.34	14.299	
3,300.00	3,281.33	3,281.55	3,251.10	11.16	11.84	54.79	288.43	332.18	250.86	232.91	17.96	13.972	
3,400.00	3,380.08	3,381.42	3,348.76	11.53	12.22	53.82	307.87	339.75	253.92	235.32	18.59	13.656	
3,500.00	3,478.84	3,481.28	3,446.41	11.91	12.60	52.88	327.32	347.31	257.04	237.79	19.25	13.351	
3,600.00	3,577.59	3,581.14	3,544.07	12.30	13.00	51.96	346.77	354.87	260.24	240.31	19.93	13.059	
3,700.00	3,676.34	3,681.00	3,641.73	12.68	13.40	51.06	366.21	362.44	263.50	242.87	20.62	12.778	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 201H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	11,480.00	17,986.56	10,250.00	59.30	59.03	-10.14	-7,234.28	517.58	1,249.52	1,109.73	139.79	8.939	
19,300.00	11,480.00	18,086.56	10,250.00	60.04	59.77	-10.14	-7,334.28	518.02	1,249.52	1,108.25	141.27	8.845	
19,400.00	11,480.00	18,186.56	10,250.00	60.77	60.51	-10.14	-7,434.28	518.46	1,249.52	1,106.77	142.75	8.753	
19,500.00	11,480.00	18,286.56	10,250.00	61.51	61.26	-10.14	-7,534.28	518.89	1,249.52	1,105.28	144.24	8.663	
19,600.00	11,480.00	18,386.56	10,250.00	62.25	62.00	-10.14	-7,634.28	519.33	1,249.52	1,103.80	145.72	8.575	
19,700.00	11,480.00	18,486.56	10,250.00	62.98	62.74	-10.14	-7,734.28	519.77	1,249.52	1,102.31	147.21	8.488	
19,800.00	11,480.00	18,586.56	10,250.00	63.72	63.49	-10.14	-7,834.27	520.21	1,249.52	1,100.82	148.70	8.403	
19,900.00	11,480.00	18,686.56	10,250.00	64.46	64.23	-10.14	-7,934.27	520.65	1,249.52	1,099.33	150.19	8.319	
20,000.00	11,480.00	18,786.56	10,250.00	65.20	64.98	-10.14	-8,034.27	521.08	1,249.52	1,097.84	151.68	8.238	
20,100.00	11,480.00	18,886.56	10,250.00	65.94	65.73	-10.14	-8,134.27	521.52	1,249.52	1,096.34	153.18	8.157	
20,200.00	11,480.00	18,986.56	10,250.00	66.69	66.47	-10.14	-8,234.27	521.96	1,249.52	1,094.85	154.67	8.078	
20,300.00	11,480.00	19,086.56	10,250.00	67.43	67.22	-10.14	-8,334.27	522.40	1,249.52	1,093.35	156.17	8.001	
20,400.00	11,480.00	19,186.56	10,250.00	68.17	67.97	-10.14	-8,434.27	522.84	1,249.52	1,091.85	157.67	7.925	
20,500.00	11,480.00	19,286.56	10,250.00	68.91	68.72	-10.14	-8,534.27	523.28	1,249.52	1,090.35	159.17	7.850	
20,600.00	11,480.00	19,386.56	10,250.00	69.66	69.47	-10.14	-8,634.27	523.71	1,249.52	1,088.85	160.67	7.777	
20,700.00	11,480.00	19,486.56	10,250.00	70.40	70.22	-10.14	-8,734.27	524.15	1,249.52	1,087.35	162.17	7.705	
20,800.00	11,480.00	19,586.56	10,250.00	71.15	70.97	-10.14	-8,834.26	524.59	1,249.52	1,085.84	163.68	7.634	
20,900.00	11,480.00	19,686.56	10,250.00	71.90	71.72	-10.14	-8,934.26	525.03	1,249.52	1,084.34	165.18	7.564	
21,000.00	11,480.00	19,786.56	10,250.00	72.64	72.47	-10.14	-9,034.26	525.47	1,249.52	1,082.83	166.69	7.496	
21,100.00	11,480.00	19,886.56	10,250.00	73.39	73.22	-10.14	-9,134.26	525.90	1,249.52	1,081.32	168.20	7.429	
21,200.00	11,480.00	19,986.56	10,250.00	74.14	73.97	-10.14	-9,234.26	526.34	1,249.52	1,079.81	169.71	7.363	
21,300.00	11,480.00	20,086.56	10,250.00	74.88	74.72	-10.14	-9,334.26	526.78	1,249.52	1,078.30	171.22	7.298	
21,400.00	11,480.00	20,186.56	10,250.00	75.63	75.47	-10.14	-9,434.26	527.22	1,249.52	1,076.79	172.73	7.234	
21,500.00	11,480.00	20,286.56	10,250.00	76.38	76.23	-10.14	-9,534.26	527.66	1,249.52	1,075.28	174.24	7.171	
21,600.00	11,480.00	20,386.56	10,250.00	77.13	76.98	-10.14	-9,634.26	528.09	1,249.52	1,073.77	175.75	7.110	
21,700.00	11,480.00	20,486.56	10,250.00	77.88	77.73	-10.14	-9,734.26	528.53	1,249.52	1,072.26	177.26	7.049	
21,800.00	11,480.00	20,586.56	10,250.00	78.63	78.49	-10.14	-9,834.26	528.97	1,249.52	1,070.74	178.78	6.989	
21,900.00	11,480.00	20,686.56	10,250.00	79.38	79.24	-10.14	-9,934.25	529.41	1,249.52	1,069.23	180.29	6.930	
22,000.00	11,480.00	20,786.56	10,250.00	80.13	80.00	-10.14	-10,034.25	529.85	1,249.52	1,067.71	181.81	6.873	
22,100.00	11,480.00	20,886.56	10,250.00	80.89	80.75	-10.14	-10,134.25	530.29	1,249.52	1,066.19	183.33	6.816	
22,200.00	11,480.00	20,986.56	10,250.00	81.64	81.51	-10.14	-10,234.25	530.72	1,249.52	1,064.67	184.85	6.760	
22,300.00	11,480.00	21,086.56	10,250.00	82.39	82.26	-10.14	-10,334.25	531.16	1,249.52	1,063.15	186.37	6.705	
22,317.88	11,480.00	21,104.44	10,250.00	82.52	82.40	-10.14	-10,352.13	531.24	1,249.52	1,062.88	186.64	6.695	
22,318.54	11,480.00	21,104.97	10,250.00	82.53	82.40	-10.14	-10,352.65	531.24	1,249.52	1,062.87	186.65	6.694 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.50	0.50	90.00	0.00	240.00	240.00				
100.00	100.00	100.00	100.00	0.66	0.66	90.00	0.00	240.00	240.00	238.68	1.32	182.208	
121.13	121.13	121.13	121.13	0.78	0.78	90.00	0.00	240.00	240.00	238.43	1.57	153.230	
200.00	200.00	200.00	200.00	1.35	1.35	90.00	0.00	240.00	240.00	237.30	2.70	88.981	
221.13	221.13	221.13	221.13	1.45	1.45	90.00	0.00	240.00	240.00	237.11	2.89	82.978	
300.00	300.00	300.00	300.00	1.82	1.82	90.00	0.00	240.00	240.00	236.37	3.63	66.040	
400.00	400.00	400.00	400.00	2.19	2.19	90.00	0.00	240.00	240.00	235.62	4.38	54.783	
426.52	426.52	426.52	426.52	2.28	2.28	90.00	0.00	240.00	240.00	235.45	4.55	52.739	
500.00	500.00	500.00	500.00	2.51	2.51	90.00	0.00	240.00	240.00	234.98	5.02	47.780	
521.13	521.13	521.13	521.13	2.57	2.57	90.00	0.00	240.00	240.00	234.86	5.14	46.656	
600.00	600.00	600.00	600.00	2.80	2.80	90.00	0.00	240.00	240.00	234.40	5.60	42.883	
621.13	621.13	621.13	621.13	2.85	2.85	90.00	0.00	240.00	240.00	234.29	5.71	42.051	
700.00	700.00	700.00	700.00	3.06	3.06	90.00	0.00	240.00	240.00	233.88	6.12	39.209	
721.13	721.13	721.13	721.13	3.11	3.11	90.00	0.00	240.00	240.00	233.78	6.22	38.561	
800.00	800.00	800.00	800.00	3.30	3.30	90.00	0.00	240.00	240.00	233.39	6.61	36.319	
821.13	821.13	821.13	821.13	3.35	3.35	90.00	0.00	240.00	240.00	233.30	6.70	35.796	
900.00	900.00	900.00	900.00	3.53	3.53	90.00	0.00	240.00	240.00	232.93	7.07	33.969	
921.13	921.13	921.13	921.13	3.58	3.58	90.00	0.00	240.00	240.00	232.84	7.16	33.535	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	90.00	0.00	240.00	240.00	232.50	7.50	32.008	
1,021.13	1,021.13	1,021.13	1,021.13	3.79	3.79	90.00	0.00	240.00	240.00	232.41	7.59	31.640	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	90.00	0.00	240.00	240.00	232.09	7.91	30.338	
1,121.13	1,121.13	1,121.13	1,121.13	4.00	4.00	90.00	0.00	240.00	240.00	232.01	7.99	30.021	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.00	0.00	240.00	240.00	231.69	8.31	28.894 CC, ES	
1,300.00	1,300.00	1,297.44	1,297.42	4.34	4.53	89.62	1.58	240.51	240.53	231.84	8.69	27.667	
1,400.00	1,400.00	1,394.65	1,394.50	4.53	5.21	88.51	6.29	242.04	242.19	233.07	9.12	26.569	
1,500.00	1,500.00	1,491.42	1,490.92	4.70	5.84	86.70	14.08	244.58	245.15	235.60	9.55	25.680	
1,600.00	1,599.98	1,587.73	1,586.55	5.06	6.43	63.26	24.92	248.10	248.92	238.90	10.02	24.845	
1,700.00	1,699.84	1,683.73	1,681.44	5.70	6.99	61.18	38.75	252.59	252.80	242.20	10.60	23.850	
1,800.00	1,799.45	1,776.34	1,772.62	6.30	7.35	59.51	53.79	258.54	257.26	246.04	11.22	22.927	
1,900.00	1,898.70	1,868.35	1,863.07	6.88	7.62	58.72	68.16	267.31	263.06	251.19	11.87	22.170	
2,000.00	1,997.53	1,960.16	1,953.10	7.10	7.90	58.75	81.86	278.94	270.24	257.94	12.29	21.982	
2,100.00	2,096.28	2,051.50	2,042.36	7.32	8.23	59.14	94.84	293.33	280.13	267.39	12.74	21.991	
2,200.00	2,195.04	2,142.17	2,130.56	7.57	8.57	59.71	107.08	310.40	292.98	279.78	13.20	22.191	
2,300.00	2,293.79	2,231.99	2,217.45	7.83	8.91	60.42	118.56	330.01	308.79	295.11	13.68	22.576	
2,400.00	2,392.54	2,320.81	2,302.83	8.12	9.24	61.21	129.26	352.04	327.54	313.38	14.16	23.133	
2,500.00	2,491.30	2,410.03	2,387.96	8.41	9.54	62.08	139.36	376.76	349.19	334.57	14.62	23.885	
2,600.00	2,590.05	2,507.26	2,480.47	8.73	9.80	62.97	150.11	404.67	371.94	356.88	15.05	24.708	
2,700.00	2,688.81	2,604.49	2,572.98	9.05	10.08	63.76	160.87	432.58	394.76	379.24	15.52	25.436	
2,800.00	2,787.56	2,701.71	2,665.49	9.38	10.38	64.47	171.62	460.49	417.64	401.64	16.00	26.100	
2,900.00	2,886.31	2,798.94	2,758.00	9.72	10.70	65.09	182.38	488.41	440.58	424.08	16.50	26.704	
3,000.00	2,985.07	2,896.16	2,850.51	10.07	11.03	65.66	193.13	516.32	463.56	446.55	17.01	27.257	
3,100.00	3,083.82	2,993.39	2,943.02	10.42	11.38	66.18	203.89	544.23	486.58	469.05	17.53	27.762	
3,200.00	3,182.58	3,090.61	3,035.53	10.79	11.74	66.64	214.64	572.14	509.63	491.58	18.06	28.225	
3,300.00	3,281.33	3,187.84	3,128.03	11.16	12.11	67.07	225.40	600.06	532.72	514.12	18.59	28.650	
3,400.00	3,380.08	3,285.07	3,220.54	11.53	12.49	67.46	236.15	627.97	555.83	536.69	19.14	29.041	
3,500.00	3,478.84	3,382.29	3,313.05	11.91	12.88	67.82	246.91	655.88	578.96	559.27	19.69	29.401	
3,600.00	3,577.59	3,479.52	3,405.56	12.30	13.28	68.15	257.66	683.79	602.11	581.86	20.25	29.733	
3,700.00	3,676.34	3,576.74	3,498.07	12.68	13.69	68.46	268.42	711.71	625.29	604.47	20.81	30.041	
3,800.00	3,775.10	3,673.97	3,590.58	13.08	14.10	68.75	279.17	739.62	648.47	627.09	21.38	30.326	
3,900.00	3,873.85	3,771.19	3,683.09	13.47	14.52	69.01	289.93	767.53	671.67	649.72	21.96	30.591	
4,000.00	3,972.61	3,868.42	3,775.60	13.87	14.95	69.26	300.68	795.44	694.89	672.35	22.53	30.837	
4,100.00	4,071.36	3,965.65	3,868.11	14.27	15.38	69.49	311.44	823.36	718.11	695.00	23.11	31.067	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.00	9,344.52	9,596.80	9,344.52	25.95	34.07	89.77	681.17	1,782.91	1,520.00	1,472.20	47.80	31.798	
9,500.00	9,444.52	9,696.80	9,444.52	26.00	34.10	89.77	681.17	1,782.91	1,520.00	1,472.09	47.91	31.725	
9,600.00	9,544.52	9,796.80	9,544.52	26.05	34.13	89.77	681.17	1,782.91	1,520.00	1,471.98	48.02	31.651	
9,700.00	9,644.52	9,896.80	9,644.52	26.10	34.17	89.77	681.17	1,782.91	1,520.00	1,471.87	48.13	31.578	
9,703.93	9,648.45	9,900.73	9,648.45	26.10	34.17	89.77	681.17	1,782.91	1,520.00	1,471.86	48.14	31.575	
9,800.00	9,744.52	9,991.31	9,738.91	26.15	34.11	89.90	677.82	1,783.03	1,520.12	1,471.92	48.21	31.533	
9,900.00	9,844.52	10,080.19	9,826.17	26.20	34.00	90.52	661.43	1,783.62	1,520.87	1,472.73	48.14	31.591	
10,000.00	9,944.52	10,162.25	9,903.61	26.25	33.87	91.53	634.50	1,784.58	1,522.75	1,474.75	48.00	31.724	
10,100.00	10,044.52	10,235.36	9,968.73	26.31	33.76	92.77	601.41	1,785.76	1,526.51	1,478.65	47.86	31.898	
10,200.00	10,144.52	10,300.00	10,022.40	26.36	33.66	94.12	565.46	1,787.05	1,532.94	1,485.19	47.75	32.104	
10,300.00	10,244.52	10,350.00	10,060.93	26.41	33.58	95.30	533.64	1,788.19	1,542.78	1,495.00	47.78	32.289	
10,400.00	10,344.52	10,400.00	10,096.54	26.46	33.52	96.60	498.59	1,789.45	1,556.58	1,508.78	47.80	32.563	
10,500.00	10,444.52	10,439.41	10,122.37	26.52	33.47	97.69	468.85	1,790.51	1,574.76	1,526.81	47.94	32.847	
10,600.00	10,544.52	10,473.22	10,142.85	26.57	33.43	98.67	441.98	1,791.47	1,597.55	1,549.40	48.15	33.181	
10,700.00	10,644.52	10,500.00	10,157.93	26.62	33.40	99.48	419.86	1,792.26	1,625.06	1,576.63	48.43	33.558	
10,800.00	10,744.52	10,527.32	10,172.23	26.67	33.38	100.32	396.60	1,793.10	1,657.26	1,608.56	48.71	34.025	
10,900.00	10,844.52	10,550.00	10,183.25	26.73	33.36	101.03	376.79	1,793.81	1,694.07	1,645.04	49.03	34.548	
11,000.00	10,944.50	10,568.63	10,191.71	26.72	33.35	-76.44	360.20	1,794.40	1,735.08	1,685.70	49.38	35.136	
11,100.00	11,043.21	10,600.00	10,204.72	26.63	33.33	-71.12	331.68	1,795.42	1,777.17	1,727.42	49.75	35.722	
11,200.00	11,137.78	10,600.00	10,204.72	26.50	33.33	-66.94	331.68	1,795.42	1,818.10	1,767.63	50.47	36.023	
11,300.00	11,225.34	10,650.00	10,222.17	26.34	33.31	-62.23	284.87	1,797.10	1,856.08	1,805.04	51.03	36.369	
11,400.00	11,303.23	10,670.62	10,228.16	26.17	33.31	-58.77	265.15	1,797.80	1,890.10	1,838.21	51.88	36.429	
11,500.00	11,369.09	10,700.00	10,235.47	25.99	33.31	-55.89	236.72	1,798.82	1,919.02	1,866.23	52.79	36.351	
11,600.00	11,420.90	10,731.10	10,241.60	25.84	33.32	-53.72	206.26	1,799.91	1,941.93	1,888.15	53.78	36.112	
11,700.00	11,457.10	10,750.00	10,244.52	25.72	33.32	-52.30	187.59	1,800.58	1,958.27	1,903.41	54.86	35.696	
11,800.00	11,476.59	10,800.00	10,249.25	25.66	33.34	-51.48	137.87	1,802.36	1,967.25	1,911.38	55.87	35.212	
11,900.00	11,480.00	10,829.32	10,250.00	25.66	33.37	-51.35	108.58	1,803.41	1,969.69	1,912.83	56.86	34.641	
12,000.00	11,480.00	10,966.40	10,250.00	25.68	33.50	-51.37	-28.48	1,805.42	1,970.45	1,913.05	57.40	34.328	
12,100.00	11,480.00	11,066.40	10,250.00	25.71	33.61	-51.37	-128.48	1,805.86	1,970.45	1,912.34	58.12	33.906	
12,200.00	11,480.00	11,166.40	10,250.00	25.74	33.74	-51.37	-228.48	1,806.31	1,970.46	1,911.59	58.87	33.474	
12,300.00	11,480.00	11,266.40	10,250.00	25.77	33.88	-51.38	-328.48	1,806.75	1,970.46	1,910.81	59.65	33.035	
12,400.00	11,480.00	11,366.40	10,250.00	25.81	34.04	-51.38	-428.47	1,807.20	1,970.47	1,910.00	60.46	32.589	
12,500.00	11,480.00	11,466.40	10,250.00	25.86	34.21	-51.38	-528.47	1,807.64	1,970.47	1,909.16	61.31	32.140	
12,600.00	11,480.00	11,566.40	10,250.00	25.91	34.39	-51.38	-628.47	1,808.08	1,970.47	1,908.29	62.18	31.688	
12,700.00	11,480.00	11,666.40	10,250.00	25.97	34.58	-51.38	-728.47	1,808.53	1,970.48	1,907.39	63.09	31.235	
12,800.00	11,480.00	11,766.40	10,250.00	26.03	34.79	-51.38	-828.47	1,808.97	1,970.48	1,906.47	64.01	30.782	
12,900.00	11,480.00	11,866.40	10,250.00	26.10	35.01	-51.38	-928.47	1,809.42	1,970.49	1,905.52	64.97	30.330	
13,000.00	11,480.00	11,966.40	10,250.00	26.18	35.25	-51.38	-1,028.47	1,809.86	1,970.49	1,904.55	65.95	29.880	
13,100.00	11,480.00	12,066.40	10,250.00	26.26	35.49	-51.38	-1,128.47	1,810.30	1,970.50	1,903.55	66.95	29.433	
13,200.00	11,480.00	12,166.40	10,250.00	26.36	35.75	-51.38	-1,228.47	1,810.75	1,970.50	1,902.53	67.97	28.990	
13,300.00	11,480.00	12,266.40	10,250.00	26.46	36.02	-51.38	-1,328.47	1,811.19	1,970.51	1,901.49	69.02	28.551	
13,400.00	11,480.00	12,366.40	10,250.00	26.58	36.30	-51.38	-1,428.46	1,811.64	1,970.51	1,900.43	70.08	28.118	
13,500.00	11,480.00	12,466.40	10,250.00	26.71	36.59	-51.38	-1,528.46	1,812.08	1,970.51	1,899.35	71.16	27.690	
13,600.00	11,480.00	12,566.40	10,250.00	26.85	36.89	-51.38	-1,628.46	1,812.52	1,970.52	1,898.25	72.27	27.268	
13,700.00	11,480.00	12,666.40	10,250.00	27.00	37.21	-51.38	-1,728.46	1,812.97	1,970.52	1,897.14	73.38	26.852	
13,800.00	11,480.00	12,766.40	10,250.00	27.18	37.53	-51.38	-1,828.46	1,813.41	1,970.53	1,896.01	74.52	26.443	
13,900.00	11,480.00	12,866.40	10,250.00	27.37	37.87	-51.38	-1,928.46	1,813.86	1,970.53	1,894.86	75.67	26.041	
14,000.00	11,480.00	12,966.40	10,250.00	27.58	38.22	-51.38	-2,028.46	1,814.30	1,970.54	1,893.70	76.83	25.646	
14,100.00	11,480.00	13,066.40	10,250.00	27.82	38.57	-51.38	-2,128.46	1,814.74	1,970.54	1,892.53	78.01	25.259	
14,200.00	11,480.00	13,166.40	10,250.00	28.08	38.94	-51.38	-2,228.46	1,815.19	1,970.55	1,891.34	79.21	24.878	
14,300.00	11,480.00	13,266.40	10,250.00	28.37	39.32	-51.38	-2,328.46	1,815.63	1,970.55	1,890.14	80.41	24.506	
14,400.00	11,480.00	13,366.40	10,250.00	28.68	39.70	-51.38	-2,428.46	1,816.08	1,970.56	1,888.93	81.63	24.140	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3											Offset Site Error: 0.00 usft		
Survey Program: 0-MWD+IFR1+MS											Offset Well Error: 0.50 usft		
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,500.00	11,480.00	13,466.40	10,250.00	29.02	40.10	-51.38	-2,528.45	1,816.52	1,970.56	1,887.70	82.86	23.782	
14,600.00	11,480.00	13,566.40	10,250.00	29.39	40.51	-51.38	-2,628.45	1,816.96	1,970.56	1,886.46	84.10	23.431	
14,700.00	11,480.00	13,666.40	10,250.00	29.79	40.92	-51.38	-2,728.45	1,817.41	1,970.57	1,885.22	85.35	23.088	
14,800.00	11,480.00	13,766.40	10,250.00	30.22	41.35	-51.38	-2,828.45	1,817.85	1,970.57	1,883.96	86.61	22.752	
14,900.00	11,480.00	13,866.40	10,250.00	30.67	41.78	-51.38	-2,928.45	1,818.30	1,970.58	1,882.70	87.88	22.423	
15,000.00	11,480.00	13,966.40	10,250.00	31.15	42.22	-51.38	-3,028.45	1,818.74	1,970.58	1,881.42	89.16	22.101	
15,100.00	11,480.00	14,066.40	10,250.00	31.65	42.67	-51.38	-3,128.45	1,819.18	1,970.59	1,880.14	90.45	21.786	
15,200.00	11,480.00	14,166.40	10,250.00	32.17	43.13	-51.38	-3,228.45	1,819.63	1,970.59	1,878.84	91.75	21.478	
15,300.00	11,480.00	14,266.40	10,250.00	32.71	43.60	-51.38	-3,328.45	1,820.07	1,970.60	1,877.54	93.05	21.177	
15,400.00	11,480.00	14,366.40	10,250.00	33.27	44.07	-51.38	-3,428.45	1,820.52	1,970.60	1,876.23	94.37	20.882	
15,500.00	11,480.00	14,466.40	10,250.00	33.84	44.55	-51.38	-3,528.44	1,820.96	1,970.61	1,874.92	95.69	20.594	
15,600.00	11,480.00	14,566.40	10,250.00	34.43	45.04	-51.38	-3,628.44	1,821.40	1,970.61	1,873.60	97.01	20.313	
15,700.00	11,480.00	14,666.40	10,250.00	35.03	45.54	-51.38	-3,728.44	1,821.85	1,970.61	1,872.27	98.35	20.037	
15,800.00	11,480.00	14,766.40	10,250.00	35.64	46.04	-51.38	-3,828.44	1,822.29	1,970.62	1,870.93	99.69	19.768	
15,900.00	11,480.00	14,866.40	10,250.00	36.26	46.55	-51.38	-3,928.44	1,822.73	1,970.62	1,869.59	101.03	19.504	
16,000.00	11,480.00	14,966.40	10,250.00	36.89	47.07	-51.38	-4,028.44	1,823.18	1,970.63	1,868.24	102.39	19.247	
16,100.00	11,480.00	15,066.40	10,250.00	37.53	47.60	-51.38	-4,128.44	1,823.62	1,970.63	1,866.89	103.74	18.995	
16,200.00	11,480.00	15,166.40	10,250.00	38.17	48.13	-51.38	-4,228.44	1,824.07	1,970.64	1,865.53	105.11	18.749	
16,300.00	11,480.00	15,266.40	10,250.00	38.83	48.66	-51.38	-4,328.44	1,824.51	1,970.64	1,864.16	106.48	18.508	
16,400.00	11,480.00	15,366.40	10,250.00	39.48	49.21	-51.38	-4,428.44	1,824.95	1,970.65	1,862.79	107.85	18.272	
16,500.00	11,480.00	15,466.40	10,250.00	40.15	49.76	-51.38	-4,528.43	1,825.40	1,970.65	1,861.42	109.23	18.041	
16,600.00	11,480.00	15,566.40	10,250.00	40.82	50.31	-51.38	-4,628.43	1,825.84	1,970.65	1,860.04	110.61	17.816	
16,700.00	11,480.00	15,666.40	10,250.00	41.50	50.87	-51.38	-4,728.43	1,826.29	1,970.66	1,858.66	112.00	17.595	
16,800.00	11,480.00	15,766.40	10,250.00	42.18	51.44	-51.38	-4,828.43	1,826.73	1,970.66	1,857.27	113.39	17.379	
16,900.00	11,480.00	15,866.40	10,250.00	42.86	52.01	-51.38	-4,928.43	1,827.17	1,970.67	1,855.88	114.79	17.168	
17,000.00	11,480.00	15,966.40	10,250.00	43.55	52.58	-51.38	-5,028.43	1,827.62	1,970.67	1,854.48	116.19	16.961	
17,100.00	11,480.00	16,066.40	10,250.00	44.24	53.16	-51.38	-5,128.43	1,828.06	1,970.68	1,853.08	117.59	16.758	
17,200.00	11,480.00	16,166.40	10,250.00	44.94	53.75	-51.38	-5,228.43	1,828.51	1,970.68	1,851.68	119.00	16.560	
17,300.00	11,480.00	16,266.40	10,250.00	45.63	54.34	-51.38	-5,328.43	1,828.95	1,970.69	1,850.27	120.41	16.366	
17,400.00	11,480.00	16,366.40	10,250.00	46.34	54.93	-51.38	-5,428.43	1,829.39	1,970.69	1,848.86	121.83	16.176	
17,500.00	11,480.00	16,466.40	10,250.00	47.04	55.53	-51.38	-5,528.42	1,829.84	1,970.70	1,847.45	123.25	15.990	
17,600.00	11,480.00	16,566.40	10,250.00	47.75	56.13	-51.38	-5,628.42	1,830.28	1,970.70	1,846.03	124.67	15.807	
17,700.00	11,480.00	16,666.40	10,250.00	48.46	56.74	-51.38	-5,728.42	1,830.73	1,970.70	1,844.61	126.09	15.629	
17,800.00	11,480.00	16,766.40	10,250.00	49.17	57.35	-51.38	-5,828.42	1,831.17	1,970.71	1,843.19	127.52	15.454	
17,900.00	11,480.00	16,866.40	10,250.00	49.88	57.97	-51.38	-5,928.42	1,831.61	1,970.71	1,841.76	128.95	15.283	
18,000.00	11,480.00	16,966.40	10,250.00	50.60	58.59	-51.38	-6,028.42	1,832.06	1,970.72	1,840.33	130.38	15.115	
18,100.00	11,480.00	17,066.40	10,250.00	51.31	59.21	-51.38	-6,128.42	1,832.50	1,970.72	1,838.90	131.82	14.950	
18,200.00	11,480.00	17,166.40	10,250.00	52.03	59.83	-51.38	-6,228.42	1,832.95	1,970.73	1,837.47	133.26	14.789	
18,300.00	11,480.00	17,266.40	10,250.00	52.75	60.46	-51.38	-6,328.42	1,833.39	1,970.73	1,836.03	134.70	14.630	
18,400.00	11,480.00	17,366.40	10,250.00	53.47	61.09	-51.38	-6,428.42	1,833.83	1,970.74	1,834.59	136.14	14.475	
18,500.00	11,480.00	17,466.40	10,250.00	54.20	61.73	-51.38	-6,528.41	1,834.28	1,970.74	1,833.15	137.59	14.323	
18,600.00	11,480.00	17,566.40	10,250.00	54.92	62.37	-51.38	-6,628.41	1,834.72	1,970.75	1,831.71	139.04	14.174	
18,700.00	11,480.00	17,666.40	10,250.00	55.65	63.01	-51.38	-6,728.41	1,835.17	1,970.75	1,830.26	140.49	14.028	
18,800.00	11,480.00	17,766.40	10,250.00	56.38	63.65	-51.38	-6,828.41	1,835.61	1,970.75	1,828.81	141.94	13.884	
18,900.00	11,480.00	17,866.40	10,250.00	57.11	64.30	-51.38	-6,928.41	1,836.05	1,970.76	1,827.36	143.40	13.743	
19,000.00	11,480.00	17,966.40	10,250.00	57.84	64.95	-51.38	-7,028.41	1,836.50	1,970.76	1,825.91	144.85	13.605	
19,100.00	11,480.00	18,066.40	10,250.00	58.57	65.60	-51.38	-7,128.41	1,836.94	1,970.77	1,824.46	146.31	13.470	
19,200.00	11,480.00	18,166.40	10,250.00	59.30	66.26	-51.38	-7,228.41	1,837.39	1,970.77	1,823.00	147.77	13.336	
19,300.00	11,480.00	18,266.40	10,250.00	60.04	66.92	-51.38	-7,328.41	1,837.83	1,970.78	1,821.54	149.24	13.206	
19,400.00	11,480.00	18,366.40	10,250.00	60.77	67.58	-51.38	-7,428.41	1,838.27	1,970.78	1,820.08	150.70	13.077	
19,500.00	11,480.00	18,466.40	10,250.00	61.51	68.24	-51.38	-7,528.40	1,838.72	1,970.79	1,818.62	152.17	12.951	
19,600.00	11,480.00	18,566.40	10,250.00	62.25	68.91	-51.38	-7,628.40	1,839.16	1,970.79	1,817.16	153.63	12.828	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,700.00	11,480.00	18,666.40	10,250.00	62.98	69.57	-51.38	-7,728.40	1,839.60	1,970.80	1,815.69	155.10	12.706	
19,800.00	11,480.00	18,766.40	10,250.00	63.72	70.24	-51.38	-7,828.40	1,840.05	1,970.80	1,814.22	156.58	12.587	
19,900.00	11,480.00	18,866.40	10,250.00	64.46	70.91	-51.38	-7,928.40	1,840.49	1,970.80	1,812.76	158.05	12.470	
20,000.00	11,480.00	18,966.40	10,250.00	65.20	71.59	-51.38	-8,028.40	1,840.94	1,970.81	1,811.29	159.52	12.354	
20,100.00	11,480.00	19,066.40	10,250.00	65.94	72.26	-51.38	-8,128.40	1,841.38	1,970.81	1,809.82	161.00	12.241	
20,200.00	11,480.00	19,166.40	10,250.00	66.69	72.94	-51.38	-8,228.40	1,841.82	1,970.82	1,808.34	162.47	12.130	
20,300.00	11,480.00	19,266.40	10,250.00	67.43	73.62	-51.38	-8,328.40	1,842.27	1,970.82	1,806.87	163.95	12.021	
20,400.00	11,480.00	19,366.40	10,250.00	68.17	74.30	-51.38	-8,428.40	1,842.71	1,970.83	1,805.39	165.43	11.913	
20,500.00	11,480.00	19,466.40	10,250.00	68.91	74.98	-51.38	-8,528.40	1,843.16	1,970.83	1,803.92	166.91	11.807	
20,600.00	11,480.00	19,566.40	10,250.00	69.66	75.67	-51.38	-8,628.39	1,843.60	1,970.84	1,802.44	168.40	11.704	
20,700.00	11,480.00	19,666.40	10,250.00	70.40	76.35	-51.38	-8,728.39	1,844.04	1,970.84	1,800.96	169.88	11.601	
20,800.00	11,480.00	19,766.40	10,250.00	71.15	77.04	-51.38	-8,828.39	1,844.49	1,970.84	1,799.48	171.37	11.501	
20,900.00	11,480.00	19,866.40	10,250.00	71.90	77.73	-51.38	-8,928.39	1,844.93	1,970.85	1,798.00	172.85	11.402	
21,000.00	11,480.00	19,966.40	10,250.00	72.64	78.42	-51.38	-9,028.39	1,845.38	1,970.85	1,796.51	174.34	11.305	
21,100.00	11,480.00	20,066.40	10,250.00	73.39	79.12	-51.38	-9,128.39	1,845.82	1,970.86	1,795.03	175.83	11.209	
21,200.00	11,480.00	20,166.40	10,250.00	74.14	79.81	-51.38	-9,228.39	1,846.26	1,970.86	1,793.55	177.32	11.115	
21,300.00	11,480.00	20,266.40	10,250.00	74.88	80.51	-51.38	-9,328.39	1,846.71	1,970.87	1,792.06	178.81	11.022	
21,400.00	11,480.00	20,366.40	10,250.00	75.63	81.20	-51.38	-9,428.39	1,847.15	1,970.87	1,790.57	180.30	10.931	
21,500.00	11,480.00	20,466.40	10,250.00	76.38	81.90	-51.38	-9,528.39	1,847.60	1,970.88	1,789.08	181.79	10.841	
21,600.00	11,480.00	20,566.40	10,250.00	77.13	82.60	-51.38	-9,628.38	1,848.04	1,970.88	1,787.60	183.29	10.753	
21,700.00	11,480.00	20,666.40	10,250.00	77.88	83.30	-51.38	-9,728.38	1,848.48	1,970.89	1,786.11	184.78	10.666	
21,800.00	11,480.00	20,766.40	10,250.00	78.63	84.00	-51.39	-9,828.38	1,848.93	1,970.89	1,784.61	186.28	10.581	
21,900.00	11,480.00	20,866.40	10,250.00	79.38	84.71	-51.39	-9,928.38	1,849.37	1,970.89	1,783.12	187.77	10.496	
22,000.00	11,480.00	20,966.40	10,250.00	80.13	85.41	-51.39	-10,028.38	1,849.82	1,970.90	1,781.63	189.27	10.413	
22,100.00	11,480.00	21,066.40	10,250.00	80.89	86.12	-51.39	-10,128.38	1,850.26	1,970.90	1,780.14	190.77	10.331	
22,200.00	11,480.00	21,166.40	10,250.00	81.64	86.82	-51.39	-10,228.38	1,850.70	1,970.91	1,778.64	192.27	10.251	
22,300.00	11,480.00	21,266.40	10,250.00	82.39	87.53	-51.39	-10,328.38	1,851.15	1,970.91	1,777.15	193.77	10.172	
22,300.63	11,480.00	21,267.03	10,250.00	82.39	87.54	-51.39	-10,329.01	1,851.15	1,970.91	1,777.14	193.78	10.171	
22,318.54	11,480.00	21,284.08	10,250.00	82.53	87.66	-51.39	-10,346.05	1,851.23	1,970.91	1,776.86	194.05	10.157 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 602H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.50	0.50	180.00	-40.00	0.00	40.00				
100.00	100.00	100.00	100.00	0.66	0.66	180.00	-40.00	0.00	40.00	38.68	1.32	30.368	
121.13	121.13	121.13	121.13	0.78	0.78	180.00	-40.00	0.00	40.00	38.43	1.57	25.538	
200.00	200.00	200.00	200.00	1.35	1.35	180.00	-40.00	0.00	40.00	37.30	2.70	14.830	
221.13	221.13	221.13	221.13	1.45	1.45	180.00	-40.00	0.00	40.00	37.11	2.89	13.830	
300.00	300.00	300.00	300.00	1.82	1.82	180.00	-40.00	0.00	40.00	36.37	3.63	11.007	
315.05	315.05	315.05	315.05	1.87	1.87	180.00	-40.00	0.00	40.00	36.25	3.75	10.678	
400.00	400.00	400.00	400.00	2.19	2.19	180.00	-40.00	0.00	40.00	35.62	4.38	9.131	
426.16	426.16	426.16	426.16	2.27	2.27	180.00	-40.00	0.00	40.00	35.45	4.55	8.794	
500.00	500.00	500.00	500.00	2.51	2.51	180.00	-40.00	0.00	40.00	34.98	5.02	7.963	
521.13	521.13	521.13	521.13	2.57	2.57	180.00	-40.00	0.00	40.00	34.86	5.14	7.776	
600.00	600.00	600.00	600.00	2.80	2.80	180.00	-40.00	0.00	40.00	34.40	5.60	7.147	
621.13	621.13	621.13	621.13	2.85	2.85	180.00	-40.00	0.00	40.00	34.29	5.71	7.008	
700.00	700.00	700.00	700.00	3.06	3.06	180.00	-40.00	0.00	40.00	33.88	6.12	6.535	
721.13	721.13	721.13	721.13	3.11	3.11	180.00	-40.00	0.00	40.00	33.78	6.22	6.427	
800.00	800.00	800.00	800.00	3.30	3.30	180.00	-40.00	0.00	40.00	33.39	6.61	6.053	
821.13	821.13	821.13	821.13	3.35	3.35	180.00	-40.00	0.00	40.00	33.30	6.70	5.966	
900.00	900.00	900.00	900.00	3.53	3.53	180.00	-40.00	0.00	40.00	32.93	7.07	5.662	
921.13	921.13	921.13	921.13	3.58	3.58	180.00	-40.00	0.00	40.00	32.84	7.16	5.589	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	180.00	-40.00	0.00	40.00	32.50	7.50	5.335	
1,021.13	1,021.13	1,021.13	1,021.13	3.79	3.79	180.00	-40.00	0.00	40.00	32.41	7.59	5.273	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	180.00	-40.00	0.00	40.00	32.09	7.91	5.056	
1,121.13	1,121.13	1,121.13	1,121.13	4.00	4.00	180.00	-40.00	0.00	40.00	32.01	7.99	5.004	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	180.00	-40.00	0.00	40.00	31.69	8.31	4.816	
1,221.13	1,221.13	1,221.13	1,221.13	4.19	4.19	180.00	-40.00	0.00	40.00	31.61	8.39	4.770	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	180.00	-40.00	0.00	40.00	31.31	8.69	4.605	
1,321.13	1,321.13	1,321.13	1,321.13	4.38	4.38	180.00	-40.00	0.00	40.00	31.24	8.76	4.564	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	180.00	-40.00	0.00	40.00	30.95	9.05	4.418	
1,421.13	1,421.13	1,421.13	1,421.13	4.56	4.56	180.00	-40.00	0.00	40.00	30.87	9.13	4.382	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	180.00	-40.00	0.00	40.00	30.59	9.41	4.251 CC, ES	
1,600.00	1,599.98	1,600.79	1,600.77	5.06	5.03	157.56	-38.99	1.46	40.63	30.66	9.97	4.074	
1,700.00	1,699.84	1,701.52	1,701.36	5.70	5.68	154.31	-35.96	5.82	42.61	31.81	10.81	3.943 SF	
1,800.00	1,799.45	1,802.12	1,801.56	6.30	6.28	149.53	-30.91	13.07	46.18	34.71	11.47	4.027	
1,900.00	1,898.70	1,902.53	1,901.21	6.88	6.85	144.00	-23.88	23.18	51.61	39.64	11.96	4.314	
2,000.00	1,997.53	2,002.70	2,000.12	7.10	7.41	138.25	-14.89	36.12	58.82	46.74	12.08	4.870	
2,100.00	2,096.28	2,102.54	2,098.11	7.32	7.94	131.17	-3.96	51.84	66.27	54.16	12.11	5.471	
2,200.00	2,195.04	2,201.84	2,194.84	7.57	8.47	122.96	8.83	70.24	74.48	62.32	12.16	6.126	
2,300.00	2,293.79	2,300.36	2,289.99	7.83	8.99	114.22	23.41	91.20	84.39	72.07	12.32	6.851	
2,400.00	2,392.54	2,398.45	2,383.95	8.12	9.24	105.82	39.47	114.31	96.68	84.08	12.60	7.672	
2,500.00	2,491.30	2,496.75	2,478.02	8.41	9.52	99.23	55.75	137.72	110.71	97.64	13.07	8.469	
2,600.00	2,590.05	2,595.04	2,572.09	8.73	9.81	94.15	72.03	161.13	125.87	112.25	13.62	9.244	
2,700.00	2,688.81	2,693.34	2,666.17	9.05	10.13	90.18	88.30	184.54	141.79	127.61	14.19	9.995	
2,800.00	2,787.56	2,791.64	2,760.24	9.38	10.46	87.02	104.58	207.95	158.25	143.48	14.77	10.717	
2,900.00	2,886.31	2,889.93	2,854.31	9.72	10.80	84.45	120.85	231.36	175.08	159.73	15.35	11.404	
3,000.00	2,985.07	2,988.23	2,948.38	10.07	11.15	82.34	137.13	254.77	192.20	176.26	15.94	12.055	
3,100.00	3,083.82	3,086.53	3,042.45	10.42	11.51	80.57	153.40	278.18	209.54	193.00	16.54	12.670	
3,200.00	3,182.58	3,184.82	3,136.52	10.79	11.89	79.07	169.68	301.59	227.03	209.90	17.14	13.250	
3,300.00	3,281.33	3,283.12	3,230.59	11.16	12.27	77.79	185.95	324.99	244.66	226.92	17.74	13.794	
3,400.00	3,380.08	3,381.42	3,324.66	11.53	12.66	76.68	202.23	348.40	262.39	244.05	18.34	14.305	
3,500.00	3,478.84	3,479.71	3,418.73	11.91	13.06	75.71	218.50	371.81	280.20	261.25	18.95	14.785	
3,600.00	3,577.59	3,578.01	3,512.81	12.30	13.47	74.86	234.78	395.22	298.09	278.52	19.57	15.236	
3,700.00	3,676.34	3,676.31	3,606.88	12.68	13.88	74.10	251.05	418.63	316.03	295.84	20.18	15.658	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 602H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
3,800.00	3,775.10	3,774.60	3,700.95	13.08	14.30	73.42	267.33	442.04	334.01	313.21	20.80	16.055	
3,900.00	3,873.85	3,872.90	3,795.02	13.47	14.72	72.82	283.61	465.45	352.04	330.61	21.43	16.428	
4,000.00	3,972.61	3,971.20	3,889.09	13.87	15.15	72.27	299.88	488.86	370.10	348.04	22.06	16.779	
4,100.00	4,071.36	4,069.49	3,983.16	14.27	15.58	71.77	316.16	512.27	388.19	365.50	22.69	17.108	
4,200.00	4,170.11	4,167.79	4,077.23	14.67	16.02	71.32	332.43	535.68	406.31	382.98	23.33	17.419	
4,300.00	4,268.87	4,266.09	4,171.30	15.08	16.45	70.90	348.71	559.09	424.45	400.48	23.96	17.711	
4,400.00	4,367.62	4,364.38	4,265.37	15.49	16.90	70.52	364.98	582.50	442.61	418.00	24.61	17.987	
4,500.00	4,466.38	4,462.68	4,359.44	15.90	17.34	70.17	381.26	605.91	460.78	435.53	25.25	18.248	
4,600.00	4,565.13	4,560.98	4,453.52	16.31	17.79	69.85	397.53	629.32	478.98	453.08	25.90	18.494	
4,700.00	4,663.88	4,659.27	4,547.59	16.72	18.25	69.55	413.81	652.73	497.18	470.63	26.55	18.727	
4,800.00	4,762.64	4,757.57	4,641.66	17.14	18.70	69.27	430.08	676.14	515.40	488.20	27.20	18.948	
4,900.00	4,861.39	4,855.87	4,735.73	17.56	19.16	69.01	446.36	699.54	533.63	505.77	27.86	19.156	
5,000.00	4,960.15	4,954.16	4,829.80	17.98	19.62	68.77	462.64	722.95	551.87	523.35	28.51	19.355	
5,100.00	5,058.90	5,052.46	4,923.87	18.40	20.08	68.54	478.91	746.36	570.11	540.94	29.17	19.543	
5,200.00	5,157.65	5,150.76	5,017.94	18.82	20.54	68.33	495.19	769.77	588.37	558.54	29.83	19.722	
5,300.00	5,256.41	5,249.06	5,112.01	19.24	21.00	68.13	511.46	793.18	606.63	576.14	30.50	19.892	
5,400.00	5,355.16	5,347.35	5,206.08	19.66	21.47	67.94	527.74	816.59	624.90	593.74	31.16	20.054	
5,500.00	5,453.91	5,445.65	5,300.15	20.09	21.94	67.76	544.01	840.00	643.18	611.35	31.83	20.208	
5,600.00	5,552.67	5,543.95	5,394.23	20.51	22.41	67.60	560.29	863.41	661.46	628.97	32.50	20.355	
5,700.00	5,651.42	5,642.24	5,488.30	20.94	22.88	67.44	576.56	886.82	679.75	646.58	33.17	20.496	
5,800.00	5,750.18	5,740.54	5,582.37	21.37	23.35	67.29	592.84	910.23	698.04	664.20	33.84	20.630	
5,900.00	5,848.93	5,840.85	5,678.38	21.79	23.83	67.14	609.44	934.11	716.33	681.81	34.52	20.754	
6,000.00	5,947.68	5,965.76	5,798.78	22.22	24.46	67.11	628.39	961.37	732.57	697.22	35.34	20.728	
6,100.00	6,046.44	6,091.95	5,921.77	22.65	25.15	67.32	644.48	984.51	745.21	709.12	36.09	20.647	
6,200.00	6,145.43	6,218.97	6,046.70	23.11	25.83	67.78	657.54	1,003.29	754.85	718.11	36.74	20.546	
6,300.00	6,244.86	6,346.58	6,173.11	23.60	26.48	68.13	667.46	1,017.56	762.16	724.84	37.32	20.423	
6,400.00	6,344.60	6,474.63	6,300.61	24.07	27.07	68.36	674.17	1,027.22	767.09	729.30	37.80	20.294	
6,500.00	6,444.53	6,602.94	6,428.77	24.48	27.60	68.48	677.63	1,032.19	769.63	731.48	38.16	20.169	
6,600.00	6,544.52	6,718.70	6,544.52	24.59	27.74	68.78	678.14	1,032.92	770.01	731.82	38.18	20.165	
6,700.00	6,644.52	6,818.70	6,644.52	24.63	27.77	68.78	678.14	1,032.92	770.01	731.72	38.29	20.110	
6,800.00	6,744.52	6,918.70	6,744.52	24.68	27.81	68.78	678.14	1,032.92	770.01	731.60	38.41	20.049	
6,900.00	6,844.52	7,018.70	6,844.52	24.72	27.85	68.78	678.14	1,032.92	770.01	731.48	38.52	19.989	
7,000.00	6,944.52	7,118.70	6,944.52	24.77	27.89	68.78	678.14	1,032.92	770.01	731.37	38.64	19.929	
7,100.00	7,044.52	7,218.70	7,044.52	24.82	27.92	68.78	678.14	1,032.92	770.01	731.25	38.75	19.869	
7,200.00	7,144.52	7,318.70	7,144.52	24.87	27.96	68.78	678.14	1,032.92	770.01	731.13	38.87	19.809	
7,300.00	7,244.52	7,418.70	7,244.52	24.91	28.00	68.78	678.14	1,032.92	770.01	731.02	38.99	19.750	
7,400.00	7,344.52	7,518.70	7,344.52	24.96	28.04	68.78	678.14	1,032.92	770.01	730.90	39.11	19.690	
7,500.00	7,444.52	7,618.70	7,444.52	25.01	28.08	68.78	678.14	1,032.92	770.01	730.78	39.22	19.631	
7,600.00	7,544.52	7,718.70	7,544.52	25.06	28.11	68.78	678.14	1,032.92	770.01	730.66	39.34	19.573	
7,700.00	7,644.52	7,818.70	7,644.52	25.10	28.15	68.78	678.14	1,032.92	770.01	730.55	39.46	19.514	
7,800.00	7,744.52	7,918.70	7,744.52	25.15	28.19	68.78	678.14	1,032.92	770.01	730.43	39.58	19.456	
7,900.00	7,844.52	8,018.70	7,844.52	25.20	28.23	68.78	678.14	1,032.92	770.01	730.31	39.70	19.398	
8,000.00	7,944.52	8,118.70	7,944.52	25.25	28.27	68.78	678.14	1,032.92	770.01	730.19	39.81	19.340	
8,100.00	8,044.52	8,218.70	8,044.52	25.30	28.31	68.78	678.14	1,032.92	770.01	730.07	39.93	19.282	
8,200.00	8,144.52	8,318.70	8,144.52	25.35	28.35	68.78	678.14	1,032.92	770.01	729.95	40.05	19.225	
8,300.00	8,244.52	8,418.70	8,244.52	25.40	28.39	68.78	678.14	1,032.92	770.01	729.83	40.17	19.167	
8,400.00	8,344.52	8,518.70	8,344.52	25.45	28.43	68.78	678.14	1,032.92	770.01	729.71	40.29	19.110	
8,500.00	8,444.52	8,618.70	8,444.52	25.49	28.47	68.78	678.14	1,032.92	770.01	729.59	40.41	19.054	
8,600.00	8,544.52	8,718.70	8,544.52	25.54	28.51	68.78	678.14	1,032.92	770.01	729.47	40.53	18.997	
8,700.00	8,644.52	8,818.70	8,644.52	25.59	28.55	68.78	678.14	1,032.92	770.01	729.35	40.65	18.941	
8,800.00	8,744.52	8,918.70	8,744.52	25.64	28.59	68.78	678.14	1,032.92	770.01	729.23	40.77	18.885	
8,900.00	8,844.52	9,018.70	8,844.52	25.69	28.63	68.78	678.14	1,032.92	770.01	729.11	40.90	18.829	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 602H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,000.00	8,944.52	9,118.70	8,944.52	25.74	28.67	89.78	678.14	1,032.92	770.01	728.99	41.02	18.773	
9,100.00	9,044.52	9,218.70	9,044.52	25.79	28.71	89.78	678.14	1,032.92	770.01	728.87	41.14	18.717	
9,200.00	9,144.52	9,318.70	9,144.52	25.85	28.75	89.78	678.14	1,032.92	770.01	728.75	41.26	18.662	
9,300.00	9,244.52	9,418.70	9,244.52	25.90	28.79	89.78	678.14	1,032.92	770.01	728.62	41.38	18.607	
9,400.00	9,344.52	9,518.70	9,344.52	25.95	28.84	89.78	678.14	1,032.92	770.01	728.50	41.50	18.552	
9,500.00	9,444.52	9,618.70	9,444.52	26.00	28.88	89.78	678.14	1,032.92	770.01	728.38	41.63	18.498	
9,600.00	9,544.52	9,718.70	9,544.52	26.05	28.92	89.78	678.14	1,032.92	770.01	728.26	41.75	18.444	
9,700.00	9,644.52	9,818.70	9,644.52	26.10	28.96	89.78	678.14	1,032.92	770.01	728.13	41.87	18.389	
9,800.00	9,744.52	9,918.70	9,744.52	26.15	29.00	89.78	678.14	1,032.92	770.01	728.01	42.00	18.335	
9,900.00	9,844.52	10,018.70	9,844.52	26.20	29.05	89.78	678.14	1,032.92	770.01	727.89	42.12	18.282	
10,000.00	9,944.52	10,118.70	9,944.52	26.25	29.09	89.78	678.14	1,032.92	770.01	727.76	42.24	18.228	
10,100.00	10,044.52	10,218.70	10,044.52	26.31	29.13	89.78	678.14	1,032.92	770.01	727.64	42.37	18.175	
10,200.00	10,144.52	10,318.70	10,144.52	26.36	29.18	89.78	678.14	1,032.92	770.01	727.52	42.49	18.122	
10,300.00	10,244.52	10,418.70	10,244.52	26.41	29.22	89.78	678.14	1,032.92	770.01	727.39	42.61	18.069	
10,400.00	10,344.52	10,518.70	10,344.52	26.46	29.26	89.78	678.14	1,032.92	770.01	727.27	42.74	18.017	
10,500.00	10,444.52	10,618.70	10,444.52	26.52	29.31	89.78	678.14	1,032.92	770.01	727.14	42.86	17.964	
10,600.00	10,544.52	10,718.70	10,544.52	26.57	29.35	89.78	678.14	1,032.92	770.01	727.02	42.99	17.912	
10,700.00	10,644.52	10,818.70	10,644.52	26.62	29.39	89.78	678.14	1,032.92	770.01	726.89	43.11	17.860	
10,800.00	10,744.52	10,918.70	10,744.52	26.67	29.44	89.78	678.14	1,032.92	770.01	726.77	43.24	17.808	
10,900.00	10,844.52	11,018.70	10,844.52	26.73	29.48	89.78	678.14	1,032.92	770.01	726.64	43.36	17.757	
11,000.00	10,944.50	11,118.68	10,944.47	26.72	29.47	-89.97	676.92	1,032.93	770.01	726.58	43.43	17.732	
11,100.00	11,043.21	11,218.62	11,043.12	26.63	29.34	-89.97	661.74	1,032.99	770.01	726.66	43.35	17.764	
11,200.00	11,137.78	11,318.56	11,137.65	26.50	29.17	-89.98	629.68	1,033.13	770.01	726.79	43.22	17.817	
11,300.00	11,225.34	11,418.51	11,225.18	26.34	28.99	-89.98	581.70	1,033.34	770.01	726.96	43.05	17.887	
11,400.00	11,303.23	11,518.46	11,303.06	26.17	28.81	-89.98	519.25	1,033.62	770.01	727.15	42.86	17.967	
11,500.00	11,369.09	11,618.42	11,368.92	25.99	28.65	-89.98	444.22	1,033.94	770.01	727.34	42.66	18.048	
11,600.00	11,420.90	11,718.39	11,420.76	25.84	28.53	-89.99	358.90	1,034.32	770.01	727.52	42.49	18.123	
11,700.00	11,457.10	11,818.36	11,457.01	25.72	28.46	-89.99	265.86	1,034.73	770.01	727.65	42.35	18.181	
11,800.00	11,476.59	11,918.35	11,476.55	25.66	28.44	-90.00	167.93	1,035.16	770.01	727.74	42.27	18.217	
11,900.00	11,480.00	12,018.35	11,480.00	25.66	28.50	-90.00	68.06	1,035.59	770.01	727.76	42.25	18.226	
12,000.00	11,480.00	12,118.35	11,480.00	25.68	28.58	-90.00	-31.94	1,036.03	770.01	727.71	42.30	18.203	
12,100.00	11,480.00	12,218.35	11,480.00	25.71	28.67	-90.00	-131.94	1,036.47	770.01	727.58	42.42	18.151	
12,200.00	11,480.00	12,318.35	11,480.00	25.74	28.78	-90.00	-231.94	1,036.91	770.01	727.40	42.60	18.075	
12,300.00	11,480.00	12,418.35	11,480.00	25.77	28.91	-90.00	-331.94	1,037.35	770.01	727.17	42.84	17.976	
12,400.00	11,480.00	12,518.35	11,480.00	25.81	29.05	-90.00	-431.94	1,037.78	770.01	726.88	43.13	17.854	
12,500.00	11,480.00	12,618.35	11,480.00	25.86	29.20	-90.00	-531.93	1,038.22	770.01	726.53	43.47	17.712	
12,600.00	11,480.00	12,718.35	11,480.00	25.91	29.36	-90.00	-631.93	1,038.66	770.01	726.13	43.87	17.551	
12,700.00	11,480.00	12,818.35	11,480.00	25.97	29.54	-90.00	-731.93	1,039.10	770.01	725.68	44.32	17.373	
12,800.00	11,480.00	12,918.35	11,480.00	26.03	29.73	-90.00	-831.93	1,039.54	770.01	725.18	44.82	17.179	
12,900.00	11,480.00	13,018.35	11,480.00	26.10	29.94	-90.00	-931.93	1,039.97	770.00	724.64	45.37	16.972	
13,000.00	11,480.00	13,118.35	11,480.00	26.18	30.15	-90.00	-1,031.93	1,040.41	770.00	724.04	45.96	16.753	
13,100.00	11,480.00	13,218.35	11,480.00	26.26	30.39	-90.00	-1,131.93	1,040.85	770.00	723.41	46.60	16.524	
13,200.00	11,480.00	13,318.35	11,480.00	26.36	30.63	-90.00	-1,231.93	1,041.29	770.00	722.73	47.28	16.287	
13,300.00	11,480.00	13,418.35	11,480.00	26.46	30.89	-90.00	-1,331.93	1,041.73	770.00	722.01	48.00	16.043	
13,400.00	11,480.00	13,518.35	11,480.00	26.58	31.16	-90.00	-1,431.93	1,042.16	770.00	721.25	48.75	15.794	
13,500.00	11,480.00	13,618.35	11,480.00	26.71	31.44	-90.00	-1,531.92	1,042.60	770.00	720.46	49.55	15.542	
13,600.00	11,480.00	13,718.35	11,480.00	26.85	31.74	-90.00	-1,631.92	1,043.04	770.00	719.63	50.37	15.286	
13,700.00	11,480.00	13,818.35	11,480.00	27.00	32.05	-90.00	-1,731.92	1,043.48	770.00	718.77	51.23	15.030	
13,800.00	11,480.00	13,918.35	11,480.00	27.18	32.37	-90.00	-1,831.92	1,043.92	770.00	717.88	52.12	14.773	
13,900.00	11,480.00	14,018.35	11,480.00	27.37	32.71	-90.00	-1,931.92	1,044.36	770.00	716.96	53.04	14.516	
14,000.00	11,480.00	14,118.35	11,480.00	27.58	33.06	-90.00	-2,031.92	1,044.79	770.00	716.01	53.99	14.261	
14,100.00	11,480.00	14,218.35	11,480.00	27.82	33.42	-90.00	-2,131.92	1,045.23	770.00	715.04	54.97	14.009	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 602H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	11,480.00	14,318.35	11,480.00	28.08	33.80	-90.00	-2,231.92	1,045.67	770.00	714.04	55.97	13.758	
14,300.00	11,480.00	14,418.35	11,480.00	28.37	34.18	-90.00	-2,331.92	1,046.11	770.00	713.02	56.99	13.511	
14,400.00	11,480.00	14,518.35	11,480.00	28.68	34.58	-90.00	-2,431.92	1,046.55	770.00	711.97	58.03	13.268	
14,500.00	11,480.00	14,618.35	11,480.00	29.02	34.99	-90.00	-2,531.92	1,046.98	770.00	710.90	59.10	13.029	
14,600.00	11,480.00	14,718.35	11,480.00	29.39	35.41	-90.00	-2,631.91	1,047.42	770.00	709.82	60.19	12.793	
14,700.00	11,480.00	14,818.35	11,480.00	29.79	35.85	-90.00	-2,731.91	1,047.86	770.00	708.71	61.29	12.563	
14,800.00	11,480.00	14,918.35	11,480.00	30.22	36.29	-90.00	-2,831.91	1,048.30	770.00	707.59	62.42	12.336	
14,900.00	11,480.00	15,018.35	11,480.00	30.67	36.74	-90.00	-2,931.91	1,048.74	770.00	706.45	63.56	12.115	
15,000.00	11,480.00	15,118.35	11,480.00	31.15	37.21	-90.00	-3,031.91	1,049.17	770.00	705.29	64.71	11.899	
15,100.00	11,480.00	15,218.35	11,480.00	31.65	37.68	-90.00	-3,131.91	1,049.61	770.00	704.12	65.89	11.687	
15,200.00	11,480.00	15,318.35	11,480.00	32.17	38.17	-90.00	-3,231.91	1,050.05	770.00	702.93	67.07	11.480	
15,300.00	11,480.00	15,418.35	11,480.00	32.71	38.66	-90.00	-3,331.91	1,050.49	770.00	701.73	68.27	11.278	
15,400.00	11,480.00	15,518.35	11,480.00	33.27	39.17	-90.00	-3,431.91	1,050.93	770.00	700.52	69.49	11.081	
15,500.00	11,480.00	15,618.35	11,480.00	33.84	39.68	-90.00	-3,531.91	1,051.36	770.00	699.29	70.71	10.889	
15,600.00	11,480.00	15,718.35	11,480.00	34.43	40.20	-90.00	-3,631.90	1,051.80	770.00	698.05	71.95	10.702	
15,700.00	11,480.00	15,818.35	11,480.00	35.03	40.73	-90.00	-3,731.90	1,052.24	770.00	696.80	73.20	10.519	
15,800.00	11,480.00	15,918.35	11,480.00	35.64	41.27	-90.00	-3,831.90	1,052.68	770.00	695.54	74.46	10.341	
15,900.00	11,480.00	16,018.35	11,480.00	36.26	41.82	-90.00	-3,931.90	1,053.12	770.00	694.28	75.73	10.168	
16,000.00	11,480.00	16,118.35	11,480.00	36.89	42.37	-90.00	-4,031.90	1,053.56	770.00	693.00	77.01	9.999	
16,100.00	11,480.00	16,218.35	11,480.00	37.53	42.93	-90.00	-4,131.90	1,053.99	770.00	691.71	78.30	9.835	
16,200.00	11,480.00	16,318.35	11,480.00	38.17	43.50	-90.00	-4,231.90	1,054.43	770.00	690.41	79.59	9.674	
16,300.00	11,480.00	16,418.35	11,480.00	38.83	44.07	-90.00	-4,331.90	1,054.87	770.00	689.11	80.90	9.518	
16,400.00	11,480.00	16,518.35	11,480.00	39.48	44.65	-90.00	-4,431.90	1,055.31	770.00	687.79	82.21	9.366	
16,500.00	11,480.00	16,618.35	11,480.00	40.15	45.24	-90.00	-4,531.90	1,055.75	770.00	686.47	83.53	9.218	
16,600.00	11,480.00	16,718.35	11,480.00	40.82	45.83	-90.00	-4,631.90	1,056.18	770.00	685.14	84.86	9.074	
16,700.00	11,480.00	16,818.35	11,480.00	41.50	46.43	-90.00	-4,731.89	1,056.62	770.00	683.81	86.20	8.933	
16,800.00	11,480.00	16,918.35	11,480.00	42.18	47.03	-90.00	-4,831.89	1,057.06	770.00	682.47	87.54	8.796	
16,900.00	11,480.00	17,018.35	11,480.00	42.86	47.64	-90.00	-4,931.89	1,057.50	770.00	681.12	88.89	8.663	
17,000.00	11,480.00	17,118.35	11,480.00	43.55	48.25	-90.00	-5,031.89	1,057.94	770.00	679.76	90.24	8.533	
17,100.00	11,480.00	17,218.35	11,480.00	44.24	48.87	-90.00	-5,131.89	1,058.37	770.00	678.40	91.60	8.406	
17,200.00	11,480.00	17,318.35	11,480.00	44.94	49.49	-90.00	-5,231.89	1,058.81	770.00	677.04	92.96	8.283	
17,300.00	11,480.00	17,418.35	11,480.00	45.63	50.12	-90.00	-5,331.89	1,059.25	770.00	675.67	94.33	8.162	
17,400.00	11,480.00	17,518.35	11,480.00	46.34	50.75	-90.00	-5,431.89	1,059.69	770.00	674.29	95.71	8.045	
17,500.00	11,480.00	17,618.35	11,480.00	47.04	51.39	-90.00	-5,531.89	1,060.13	770.00	672.91	97.09	7.931	
17,600.00	11,480.00	17,718.35	11,480.00	47.75	52.03	-90.00	-5,631.89	1,060.57	770.00	671.53	98.48	7.819	
17,700.00	11,480.00	17,818.35	11,480.00	48.46	52.67	-90.00	-5,731.88	1,061.00	770.00	670.14	99.87	7.710	
17,800.00	11,480.00	17,918.35	11,480.00	49.17	53.32	-90.00	-5,831.88	1,061.44	770.00	668.74	101.26	7.604	
17,900.00	11,480.00	18,018.35	11,480.00	49.88	53.97	-90.00	-5,931.88	1,061.88	770.00	667.35	102.66	7.501	
18,000.00	11,480.00	18,118.35	11,480.00	50.60	54.62	-90.00	-6,031.88	1,062.32	770.00	665.94	104.06	7.400	
18,100.00	11,480.00	18,218.35	11,480.00	51.31	55.28	-90.00	-6,131.88	1,062.76	770.00	664.54	105.46	7.301	
18,200.00	11,480.00	18,318.35	11,480.00	52.03	55.94	-90.00	-6,231.88	1,063.19	770.00	663.13	106.87	7.205	
18,300.00	11,480.00	18,418.35	11,480.00	52.75	56.60	-90.00	-6,331.88	1,063.63	770.00	661.72	108.29	7.111	
18,400.00	11,480.00	18,518.35	11,480.00	53.47	57.27	-90.00	-6,431.88	1,064.07	770.00	660.30	109.70	7.019	
18,500.00	11,480.00	18,618.35	11,480.00	54.20	57.94	-90.00	-6,531.88	1,064.51	770.00	658.88	111.12	6.929	
18,600.00	11,480.00	18,718.35	11,480.00	54.92	58.61	-90.00	-6,631.88	1,064.95	770.00	657.46	112.54	6.842	
18,700.00	11,480.00	18,818.35	11,480.00	55.65	59.29	-90.00	-6,731.87	1,065.38	770.00	656.03	113.97	6.756	
18,800.00	11,480.00	18,918.35	11,480.00	56.38	59.96	-90.00	-6,831.87	1,065.82	770.00	654.60	115.40	6.673	
18,900.00	11,480.00	19,018.35	11,480.00	57.11	60.64	-90.00	-6,931.87	1,066.26	770.00	653.17	116.83	6.591	
19,000.00	11,480.00	19,118.35	11,480.00	57.84	61.32	-90.00	-7,031.87	1,066.70	770.00	651.74	118.26	6.511	
19,100.00	11,480.00	19,218.35	11,480.00	58.57	62.01	-90.00	-7,131.87	1,067.14	770.00	650.30	119.70	6.433	
19,200.00	11,480.00	19,318.35	11,480.00	59.30	62.70	-90.00	-7,231.87	1,067.58	770.00	648.86	121.14	6.356	
19,300.00	11,480.00	19,418.35	11,480.00	60.04	63.38	-90.00	-7,331.87	1,068.01	770.00	647.42	122.58	6.282	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 602H - Wellbore #1 - Plan 3													Offset Site Error:	0.00 usft	
Survey Program:		0-MWD+IFR1+MS						Rule Assigned:						Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
19,400.00	11,480.00	19,518.35	11,480.00	60.77	64.07	-90.00	-7,431.87	1,068.45	770.00	645.98	124.02	6.209			
19,500.00	11,480.00	19,618.35	11,480.00	61.51	64.77	-90.00	-7,531.87	1,068.89	770.00	644.53	125.47	6.137			
19,600.00	11,480.00	19,718.35	11,480.00	62.25	65.46	-90.00	-7,631.87	1,069.33	770.00	643.08	126.92	6.067			
19,700.00	11,480.00	19,818.35	11,480.00	62.98	66.16	-90.00	-7,731.87	1,069.77	770.00	641.63	128.37	5.998			
19,800.00	11,480.00	19,918.35	11,480.00	63.72	66.85	-90.00	-7,831.86	1,070.20	770.00	640.18	129.82	5.931			
19,900.00	11,480.00	20,018.35	11,480.00	64.46	67.55	-90.00	-7,931.86	1,070.64	770.00	638.73	131.27	5.866			
20,000.00	11,480.00	20,118.35	11,480.00	65.20	68.25	-90.00	-8,031.86	1,071.08	770.00	637.27	132.73	5.801			
20,100.00	11,480.00	20,218.35	11,480.00	65.94	68.96	-90.00	-8,131.86	1,071.52	770.00	635.81	134.19	5.738			
20,200.00	11,480.00	20,318.35	11,480.00	66.69	69.66	-90.00	-8,231.86	1,071.96	770.00	634.35	135.65	5.676			
20,300.00	11,480.00	20,418.35	11,480.00	67.43	70.37	-90.00	-8,331.86	1,072.39	770.00	632.89	137.11	5.616			
20,400.00	11,480.00	20,518.35	11,480.00	68.17	71.07	-90.00	-8,431.86	1,072.83	770.00	631.43	138.57	5.557			
20,500.00	11,480.00	20,618.35	11,480.00	68.91	71.78	-90.00	-8,531.86	1,073.27	770.00	629.96	140.04	5.498			
20,600.00	11,480.00	20,718.35	11,480.00	69.66	72.49	-90.00	-8,631.86	1,073.71	770.00	628.50	141.50	5.442			
20,700.00	11,480.00	20,818.35	11,480.00	70.40	73.20	-90.00	-8,731.86	1,074.15	770.00	627.03	142.97	5.386			
20,800.00	11,480.00	20,918.35	11,480.00	71.15	73.92	-90.00	-8,831.85	1,074.58	770.00	625.56	144.44	5.331			
20,900.00	11,480.00	21,018.35	11,480.00	71.90	74.63	-90.00	-8,931.85	1,075.02	770.00	624.09	145.91	5.277			
21,000.00	11,480.00	21,118.35	11,480.00	72.64	75.34	-90.00	-9,031.85	1,075.46	770.00	622.62	147.39	5.224			
21,100.00	11,480.00	21,218.35	11,480.00	73.39	76.06	-90.00	-9,131.85	1,075.90	770.00	621.14	148.86	5.173			
21,200.00	11,480.00	21,318.35	11,480.00	74.14	76.78	-90.00	-9,231.85	1,076.34	770.00	619.67	150.33	5.122			
21,300.00	11,480.00	21,418.35	11,480.00	74.88	77.50	-90.00	-9,331.85	1,076.78	770.00	618.19	151.81	5.072			
21,400.00	11,480.00	21,518.35	11,480.00	75.63	78.21	-90.00	-9,431.85	1,077.21	770.00	616.71	153.29	5.023			
21,500.00	11,480.00	21,618.35	11,480.00	76.38	78.93	-90.00	-9,531.85	1,077.65	770.00	615.23	154.77	4.975			
21,600.00	11,480.00	21,718.35	11,480.00	77.13	79.66	-90.00	-9,631.85	1,078.09	770.00	613.75	156.25	4.928			
21,700.00	11,480.00	21,818.35	11,480.00	77.88	80.38	-90.00	-9,731.85	1,078.53	770.00	612.27	157.73	4.882			
21,800.00	11,480.00	21,918.35	11,480.00	78.63	81.10	-90.00	-9,831.85	1,078.97	770.00	610.79	159.21	4.836			
21,900.00	11,480.00	22,018.35	11,480.00	79.38	81.83	-90.00	-9,931.84	1,079.40	770.00	609.31	160.69	4.792			
22,000.00	11,480.00	22,118.35	11,480.00	80.13	82.55	-90.00	-10,031.84	1,079.84	770.00	607.82	162.18	4.748			
22,100.00	11,480.00	22,218.35	11,480.00	80.89	83.28	-90.00	-10,131.84	1,080.28	770.00	606.34	163.66	4.705			
22,200.00	11,480.00	22,318.35	11,480.00	81.64	84.00	-90.00	-10,231.84	1,080.72	770.00	604.85	165.15	4.662			
22,300.00	11,480.00	22,418.35	11,480.00	82.39	84.73	-90.00	-10,331.84	1,081.16	770.00	603.37	166.63	4.621			
22,317.77	11,480.00	22,436.12	11,480.00	82.52	84.86	-90.00	-10,349.61	1,081.23	770.00	603.10	166.90	4.614			
22,318.54	11,480.00	22,436.41	11,480.00	82.53	84.86	-90.00	-10,349.90	1,081.24	770.00	603.09	166.91	4.613			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.50	0.50	90.00	0.00	280.00	280.00				
100.00	100.00	100.00	100.00	0.66	0.66	90.00	0.00	280.00	280.00	278.68	1.32	212.576	
200.00	200.00	200.00	200.00	1.35	1.35	90.00	0.00	280.00	280.00	277.30	2.70	103.811	
300.00	300.00	300.00	300.00	1.82	1.82	90.00	0.00	280.00	280.00	276.37	3.63	77.047	
400.00	400.00	400.00	400.00	2.19	2.19	90.00	0.00	280.00	280.00	275.62	4.38	63.914	
426.16	426.16	426.16	426.16	2.27	2.27	90.00	0.00	280.00	280.00	275.45	4.55	61.559	
500.00	500.00	500.00	500.00	2.51	2.51	90.00	0.00	280.00	280.00	274.98	5.02	55.743	
600.00	600.00	600.00	600.00	2.80	2.80	90.00	0.00	280.00	280.00	274.40	5.60	50.030	
700.00	700.00	700.00	700.00	3.06	3.06	90.00	0.00	280.00	280.00	273.88	6.12	45.743	
800.00	800.00	800.00	800.00	3.30	3.30	90.00	0.00	280.00	280.00	273.39	6.61	42.373	
900.00	900.00	900.00	900.00	3.53	3.53	90.00	0.00	280.00	280.00	272.93	7.07	39.631	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	90.00	0.00	280.00	280.00	272.50	7.50	37.343	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	90.00	0.00	280.00	280.00	272.09	7.91	35.395	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.00	0.00	280.00	280.00	271.69	8.31	33.710	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	90.00	0.00	280.00	280.00	271.31	8.69	32.234	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	90.00	0.00	280.00	280.00	270.95	9.05	30.926	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	90.00	0.00	280.00	280.00	270.59	9.41	29.756 CC	
1,600.00	1,599.98	1,595.25	1,595.23	5.06	4.90	69.31	-1.37	280.79	280.21	270.47	9.74	28.767 ES	
1,700.00	1,699.84	1,689.97	1,689.83	5.70	5.47	71.07	-5.45	283.15	281.05	270.83	10.22	27.510	
1,800.00	1,799.45	1,783.12	1,782.68	6.30	5.68	73.83	-11.83	287.05	283.09	272.56	10.53	26.891	
1,900.00	1,898.70	1,874.93	1,874.12	6.88	5.86	76.86	-17.27	293.10	287.32	276.45	10.87	26.432	
2,000.00	1,997.53	1,966.78	1,965.50	7.10	6.19	79.94	-20.99	301.53	294.10	282.94	11.16	26.359	
2,100.00	2,096.28	2,058.95	2,057.01	7.32	6.57	82.61	-22.97	312.38	303.79	292.19	11.60	26.188	
2,200.00	2,195.04	2,151.34	2,148.44	7.57	6.88	84.69	-23.20	325.63	316.08	303.93	12.14	26.026	
2,300.00	2,293.79	2,243.75	2,239.50	7.83	7.11	86.19	-21.67	341.26	330.62	317.90	12.72	25.997	
2,400.00	2,392.54	2,335.99	2,329.91	8.12	7.34	87.17	-18.39	359.22	347.17	333.90	13.28	26.147	
2,500.00	2,491.30	2,427.87	2,419.40	8.41	7.75	87.66	-13.38	379.42	365.57	351.75	13.82	26.460	
2,600.00	2,590.05	2,519.20	2,507.69	8.73	8.21	87.73	-6.69	401.77	385.71	371.35	14.35	26.870	
2,700.00	2,688.81	2,609.80	2,594.55	9.05	8.68	87.45	1.63	426.16	407.57	392.70	14.87	27.405	
2,800.00	2,787.56	2,700.00	2,680.21	9.38	9.15	86.87	11.56	452.60	431.17	415.78	15.39	28.008	
2,900.00	2,886.31	2,793.88	2,768.67	9.72	9.42	86.10	23.19	481.80	456.12	440.33	15.79	28.879	
3,000.00	2,985.07	2,890.50	2,859.68	10.07	9.73	85.37	35.22	511.94	481.23	464.98	16.25	29.607	
3,100.00	3,083.82	2,987.13	2,950.69	10.42	10.06	84.71	47.25	542.07	506.40	489.67	16.73	30.264	
3,200.00	3,182.58	3,083.75	3,041.71	10.79	10.40	84.12	59.29	572.21	531.63	514.40	17.22	30.864	
3,300.00	3,281.33	3,180.38	3,132.72	11.16	10.76	83.58	71.32	602.35	556.90	539.18	17.73	31.413	
3,400.00	3,380.08	3,277.00	3,223.73	11.53	11.12	83.09	83.36	632.49	582.22	563.98	18.24	31.915	
3,500.00	3,478.84	3,373.63	3,314.74	11.91	11.50	82.63	95.39	662.63	607.58	588.81	18.77	32.375	
3,600.00	3,577.59	3,470.25	3,405.75	12.30	11.88	82.22	107.43	692.77	632.97	613.67	19.30	32.796	
3,700.00	3,676.34	3,566.88	3,496.76	12.68	12.27	81.83	119.46	722.91	658.38	638.54	19.84	33.181	
3,800.00	3,775.10	3,663.50	3,587.78	13.08	12.67	81.48	131.50	753.05	683.83	663.43	20.39	33.535	
3,900.00	3,873.85	3,760.13	3,678.79	13.47	13.08	81.15	143.53	783.19	709.29	688.34	20.95	33.859	
4,000.00	3,972.61	3,856.75	3,769.80	13.87	13.49	80.84	155.56	813.33	734.78	713.27	21.51	34.158	
4,100.00	4,071.36	3,953.38	3,860.81	14.27	13.91	80.55	167.60	843.47	760.28	738.20	22.08	34.432	
4,200.00	4,170.11	4,050.00	3,951.82	14.67	14.33	80.28	179.63	873.61	785.80	763.15	22.66	34.685	
4,300.00	4,268.87	4,146.63	4,042.84	15.08	14.76	80.03	191.67	903.75	811.34	788.11	23.24	34.918	
4,400.00	4,367.62	4,243.25	4,133.85	15.49	15.20	79.80	203.70	933.89	836.89	813.07	23.82	35.134	
4,500.00	4,466.38	4,339.88	4,224.86	15.90	15.63	79.57	215.74	964.03	862.45	838.05	24.41	35.332	
4,600.00	4,565.13	4,436.50	4,315.87	16.31	16.08	79.37	227.77	994.17	888.03	863.03	25.00	35.517	
4,700.00	4,663.88	4,533.13	4,406.88	16.72	16.52	79.17	239.81	1,024.31	913.61	888.01	25.60	35.687	
4,800.00	4,762.64	4,629.75	4,497.90	17.14	16.97	78.98	251.84	1,054.45	939.21	913.01	26.20	35.845	
4,900.00	4,861.39	4,726.38	4,588.91	17.56	17.42	78.80	263.87	1,084.59	964.81	938.01	26.81	35.992	
5,000.00	4,960.15	4,823.00	4,679.92	17.98	17.88	78.64	275.91	1,114.73	990.42	963.01	27.41	36.129	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,058.90	4,919.63	4,770.93	18.40	18.33	78.48	287.94	1,144.87	1,016.04	988.02	28.02	36.256	
5,200.00	5,157.65	5,016.25	4,861.94	18.82	18.79	78.33	299.98	1,175.01	1,041.67	1,013.03	28.64	36.374	
5,300.00	5,256.41	5,112.88	4,952.96	19.24	19.26	78.18	312.01	1,205.15	1,067.30	1,038.05	29.25	36.484	
5,400.00	5,355.16	5,209.50	5,043.97	19.66	19.72	78.04	324.05	1,235.28	1,092.94	1,063.07	29.87	36.587	
5,500.00	5,453.91	5,306.13	5,134.98	20.09	20.19	77.91	336.08	1,265.42	1,118.58	1,088.09	30.49	36.683	
5,600.00	5,552.67	5,402.75	5,225.99	20.51	20.66	77.79	348.12	1,295.56	1,144.23	1,113.12	31.12	36.773	
5,700.00	5,651.42	5,499.38	5,317.00	20.94	21.13	77.67	360.15	1,325.70	1,169.89	1,138.15	31.74	36.857	
5,800.00	5,750.18	5,596.00	5,408.02	21.37	21.60	77.55	372.18	1,355.84	1,195.55	1,163.18	32.37	36.936	
5,900.00	5,848.93	5,692.63	5,499.03	21.79	22.07	77.44	384.22	1,385.98	1,221.21	1,188.21	33.00	37.009	
6,000.00	5,947.68	5,789.25	5,590.04	22.22	22.55	77.34	396.25	1,416.12	1,246.88	1,213.25	33.63	37.078	
6,100.00	6,046.44	5,885.88	5,681.05	22.65	23.02	77.24	408.29	1,446.26	1,272.55	1,238.28	34.26	37.141	
6,200.00	6,145.43	5,982.35	5,771.92	23.11	23.50	77.58	420.30	1,476.36	1,298.57	1,263.66	34.91	37.198	
6,300.00	6,244.86	6,078.44	5,862.43	23.60	23.98	77.81	432.27	1,506.33	1,325.35	1,289.76	35.59	37.241	
6,400.00	6,344.60	6,174.03	5,952.47	24.07	24.45	77.92	444.18	1,536.14	1,352.89	1,316.59	36.29	37.278	
6,500.00	6,444.53	6,269.00	6,041.92	24.48	24.92	77.92	456.00	1,565.77	1,381.23	1,344.21	37.02	37.313	
6,600.00	6,544.52	6,363.31	6,130.75	24.59	25.39	98.85	467.75	1,595.18	1,410.37	1,372.66	37.71	37.398	
6,700.00	6,644.52	6,457.50	6,219.47	24.63	25.86	98.18	479.48	1,624.56	1,439.80	1,401.37	38.42	37.470	
6,800.00	6,744.52	6,551.69	6,308.19	24.68	26.34	97.53	491.21	1,653.94	1,469.41	1,430.27	39.14	37.541	
6,900.00	6,844.52	6,645.88	6,396.91	24.72	26.81	96.91	502.94	1,683.32	1,499.18	1,459.33	39.86	37.615	
7,000.00	6,944.52	6,740.07	6,485.63	24.77	27.28	96.32	514.68	1,712.71	1,529.12	1,488.55	40.57	37.692	
7,100.00	7,044.52	6,834.26	6,574.34	24.82	27.76	95.74	526.41	1,742.09	1,559.20	1,517.92	41.28	37.773	
7,200.00	7,144.52	6,928.45	6,663.06	24.87	28.23	95.19	538.14	1,771.47	1,589.43	1,547.44	41.99	37.857	
7,300.00	7,244.52	7,022.64	6,751.78	24.91	28.71	94.66	549.87	1,800.85	1,619.78	1,577.09	42.69	37.943	
7,400.00	7,344.52	7,116.84	6,840.50	24.96	29.18	94.14	561.60	1,830.23	1,650.26	1,606.87	43.39	38.032	
7,500.00	7,444.52	7,211.03	6,929.22	25.01	29.66	93.65	573.33	1,859.61	1,680.86	1,636.77	44.09	38.123	
7,600.00	7,544.52	7,305.22	7,017.94	25.06	30.14	93.17	585.06	1,888.99	1,711.58	1,666.79	44.79	38.215	
7,700.00	7,644.52	7,399.41	7,106.66	25.10	30.62	92.71	596.80	1,918.37	1,742.39	1,696.91	45.48	38.310	
7,800.00	7,744.52	7,493.60	7,195.38	25.15	31.10	92.26	608.53	1,947.75	1,773.31	1,727.14	46.17	38.405	
7,900.00	7,844.52	7,587.79	7,284.10	25.20	31.57	91.83	620.26	1,977.13	1,804.33	1,757.46	46.86	38.503	
8,000.00	7,944.52	7,681.97	7,372.82	25.25	32.04	91.38	632.00	2,006.51	1,835.35	1,787.48	47.54	38.603	
8,100.00	8,044.52	7,776.16	7,461.54	25.30	32.51	90.93	643.75	2,035.94	1,866.37	1,817.50	48.22	38.703	
8,200.00	8,144.52	7,870.35	7,551.12	25.35	32.98	90.48	655.50	2,065.41	1,897.39	1,847.52	48.90	38.803	
8,300.00	8,244.52	7,964.54	7,640.69	25.40	33.45	89.78	667.25	2,094.94	1,928.41	1,877.54	49.58	38.903	
8,400.00	8,344.52	8,058.73	7,730.06	25.45	33.92	89.78	679.00	2,124.41	1,958.93	1,907.56	50.26	39.003	
8,500.00	8,444.52	8,152.92	7,819.43	25.49	34.39	89.78	690.75	2,153.91	1,989.41	1,937.58	50.94	39.103	
8,600.00	8,544.52	8,247.11	7,908.80	25.54	34.86	89.78	702.50	2,183.41	2,019.89	1,967.60	51.62	39.203	
8,700.00	8,644.52	8,341.30	8,000.00	25.59	35.33	89.78	714.25	2,212.91	2,050.37	1,997.62	52.30	39.303	
8,800.00	8,744.52	8,435.49	8,091.19	25.64	35.80	89.78	726.00	2,242.41	2,080.85	2,027.64	52.98	39.403	
8,900.00	8,844.52	8,529.68	8,182.38	25.69	36.27	89.78	737.75	2,271.91	2,111.33	2,057.66	53.66	39.503	
9,000.00	8,944.52	8,623.87	8,273.57	25.74	36.74	89.78	749.50	2,301.41	2,141.81	2,087.68	54.34	39.603	
9,100.00	9,044.52	8,718.06	8,364.76	25.79	37.21	89.78	761.25	2,330.91	2,172.29	2,117.70	55.02	39.703	
9,200.00	9,144.52	8,812.25	8,455.95	25.85	37.68	89.78	773.00	2,360.41	2,202.77	2,147.72	55.70	39.803	
9,300.00	9,244.52	8,906.44	8,547.14	25.90	38.15	89.78	784.75	2,389.91	2,233.25	2,177.74	56.38	39.903	
9,400.00	9,344.52	9,000.63	8,638.33	25.95	38.62	89.78	796.50	2,419.41	2,263.73	2,207.76	57.06	40.003	
9,500.00	9,444.52	9,094.82	8,729.52	26.00	39.09	89.78	808.25	2,448.91	2,294.21	2,237.78	57.74	40.103	
9,600.00	9,544.52	9,189.01	8,820.71	26.05	39.56	89.78	820.00	2,478.41	2,324.69	2,267.80	58.42	40.203	
9,700.00	9,644.52	9,283.20	8,911.90	26.10	40.03	89.78	831.75	2,507.91	2,355.17	2,297.82	59.10	40.303	
9,800.00	9,744.52	9,377.39	9,003.09	26.15	40.50	89.78	843.50	2,537.41	2,385.65	2,327.84	59.78	40.403	
9,900.00	9,844.52	9,471.58	9,094.28	26.20	40.97	89.78	855.25	2,566.91	2,416.13	2,357.86	60.46	40.503	
10,000.00	9,944.52	9,565.77	9,185.47	26.25	41.44	89.78	867.00	2,596.41	2,446.61	2,387.88	61.14	40.603	
10,100.00	10,044.52	9,659.96	9,276.66	26.31	41.91	89.78	878.75	2,625.91	2,477.09	2,417.90	61.82	40.703	
10,200.00	10,144.52	9,754.15	9,367.85	26.36	42.38	89.78	890.50	2,655.41	2,507.57	2,447.92	62.50	40.803	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,300.00	10,244.52	10,567.52	10,244.52	26.41	36.79	89.78	682.46	2,132.91	1,870.00	1,817.59	52.41	35.678	
10,400.00	10,344.52	10,667.52	10,344.52	26.46	36.82	89.78	682.46	2,132.91	1,870.00	1,817.48	52.52	35.605	
10,500.00	10,444.52	10,767.52	10,444.52	26.52	36.85	89.78	682.46	2,132.91	1,870.00	1,817.38	52.63	35.533	
10,600.00	10,544.52	10,867.52	10,544.52	26.57	36.88	89.78	682.46	2,132.91	1,870.00	1,817.27	52.73	35.461	
10,700.00	10,644.52	10,967.52	10,644.52	26.62	36.91	89.78	682.46	2,132.91	1,870.00	1,817.16	52.84	35.389	
10,800.00	10,744.52	11,067.52	10,744.52	26.67	36.94	89.78	682.46	2,132.91	1,870.00	1,817.05	52.95	35.317	
10,900.00	10,844.52	11,167.52	10,844.52	26.73	36.97	89.78	682.46	2,132.91	1,870.00	1,816.95	53.06	35.245	
11,000.00	10,944.50	11,267.46	10,944.44	26.72	36.96	-89.97	681.24	2,132.92	1,870.00	1,816.89	53.11	35.210	
11,100.00	11,043.21	11,367.32	11,043.01	26.63	36.85	-89.97	666.09	2,132.98	1,870.00	1,816.96	53.05	35.252	
11,200.00	11,137.78	11,467.17	11,137.47	26.50	36.73	-89.98	634.08	2,133.12	1,870.00	1,817.06	52.94	35.323	
11,300.00	11,225.34	11,567.04	11,224.95	26.34	36.59	-89.98	586.17	2,133.33	1,870.00	1,817.21	52.80	35.418	
11,400.00	11,303.23	11,666.93	11,302.81	26.17	36.47	-89.98	523.81	2,133.61	1,870.00	1,817.37	52.64	35.526	
11,500.00	11,369.09	11,766.83	11,368.68	25.99	36.36	-89.98	448.87	2,133.93	1,870.00	1,817.53	52.48	35.635	
11,600.00	11,420.90	11,866.75	11,420.56	25.84	36.29	-89.99	363.62	2,134.31	1,870.00	1,817.67	52.33	35.734	
11,700.00	11,457.10	11,966.70	11,456.87	25.72	36.25	-89.99	270.64	2,134.71	1,870.00	1,817.78	52.22	35.809	
11,800.00	11,476.59	12,066.67	11,476.50	25.66	36.25	-90.00	172.74	2,135.14	1,870.00	1,817.85	52.16	35.852	
11,900.00	11,480.00	12,166.66	11,480.00	25.66	36.31	-90.00	72.88	2,135.58	1,870.00	1,817.85	52.15	35.858	
12,000.00	11,480.00	12,266.66	11,480.00	25.68	36.38	-90.00	-27.12	2,136.02	1,870.00	1,817.80	52.21	35.818	
12,100.00	11,480.00	12,366.66	11,480.00	25.71	36.48	-90.00	-127.12	2,136.46	1,870.00	1,817.68	52.33	35.737	
12,200.00	11,480.00	12,466.66	11,480.00	25.74	36.59	-90.00	-227.12	2,136.90	1,870.00	1,817.51	52.50	35.621	
12,300.00	11,480.00	12,566.66	11,480.00	25.77	36.72	-90.00	-327.12	2,137.33	1,870.00	1,817.29	52.72	35.473	
12,400.00	11,480.00	12,666.66	11,480.00	25.81	36.86	-90.00	-427.12	2,137.77	1,870.00	1,817.02	52.99	35.292	
12,500.00	11,480.00	12,766.66	11,480.00	25.86	37.02	-90.00	-527.11	2,138.21	1,870.00	1,816.70	53.30	35.082	
12,600.00	11,480.00	12,866.66	11,480.00	25.91	37.19	-90.00	-627.11	2,138.65	1,870.00	1,816.33	53.67	34.843	
12,700.00	11,480.00	12,966.66	11,480.00	25.97	37.38	-90.00	-727.11	2,139.09	1,870.00	1,815.92	54.08	34.578	
12,800.00	11,480.00	13,066.66	11,480.00	26.03	37.57	-90.00	-827.11	2,139.52	1,870.00	1,815.47	54.54	34.290	
12,900.00	11,480.00	13,166.66	11,480.00	26.10	37.79	-90.00	-927.11	2,139.96	1,870.00	1,814.97	55.03	33.980	
13,000.00	11,480.00	13,266.66	11,480.00	26.18	38.01	-90.00	-1,027.11	2,140.40	1,870.00	1,814.43	55.57	33.651	
13,100.00	11,480.00	13,366.66	11,480.00	26.26	38.25	-90.00	-1,127.11	2,140.84	1,870.00	1,813.85	56.15	33.304	
13,200.00	11,480.00	13,466.66	11,480.00	26.36	38.50	-90.00	-1,227.11	2,141.28	1,870.00	1,813.24	56.76	32.943	
13,300.00	11,480.00	13,566.66	11,480.00	26.46	38.76	-90.00	-1,327.11	2,141.71	1,870.00	1,812.59	57.42	32.569	
13,400.00	11,480.00	13,666.66	11,480.00	26.58	39.03	-90.00	-1,427.11	2,142.15	1,870.00	1,811.90	58.10	32.184	
13,500.00	11,480.00	13,766.66	11,480.00	26.71	39.32	-90.00	-1,527.11	2,142.59	1,870.00	1,811.18	58.82	31.791	
13,600.00	11,480.00	13,866.66	11,480.00	26.85	39.62	-90.00	-1,627.10	2,143.03	1,870.00	1,810.43	59.57	31.390	
13,700.00	11,480.00	13,966.66	11,480.00	27.00	39.92	-90.00	-1,727.10	2,143.47	1,870.00	1,809.65	60.35	30.984	
13,800.00	11,480.00	14,066.66	11,480.00	27.18	40.24	-90.00	-1,827.10	2,143.91	1,870.00	1,808.84	61.16	30.574	
13,900.00	11,480.00	14,166.66	11,480.00	27.37	40.57	-90.00	-1,927.10	2,144.34	1,870.00	1,808.00	62.00	30.161	
14,000.00	11,480.00	14,266.66	11,480.00	27.58	40.91	-90.00	-2,027.10	2,144.78	1,870.00	1,807.14	62.86	29.747	
14,100.00	11,480.00	14,366.66	11,480.00	27.82	41.26	-90.00	-2,127.10	2,145.22	1,870.00	1,806.25	63.75	29.333	
14,200.00	11,480.00	14,466.66	11,480.00	28.08	41.62	-90.00	-2,227.10	2,145.66	1,870.00	1,805.34	64.66	28.919	
14,300.00	11,480.00	14,566.66	11,480.00	28.37	41.99	-90.00	-2,327.10	2,146.10	1,870.00	1,804.41	65.60	28.507	
14,400.00	11,480.00	14,666.66	11,480.00	28.68	42.37	-90.00	-2,427.10	2,146.53	1,870.00	1,803.45	66.55	28.098	
14,500.00	11,480.00	14,766.66	11,480.00	29.02	42.76	-90.00	-2,527.10	2,146.97	1,870.00	1,802.47	67.53	27.692	
14,600.00	11,480.00	14,866.66	11,480.00	29.39	43.15	-90.00	-2,627.09	2,147.41	1,870.00	1,801.48	68.53	27.289	
14,700.00	11,480.00	14,966.66	11,480.00	29.79	43.56	-90.00	-2,727.09	2,147.85	1,870.00	1,800.46	69.54	26.891	
14,800.00	11,480.00	15,066.66	11,480.00	30.22	43.97	-90.00	-2,827.09	2,148.29	1,870.00	1,799.43	70.57	26.497	
14,900.00	11,480.00	15,166.66	11,480.00	30.67	44.40	-90.00	-2,927.09	2,148.72	1,870.00	1,798.38	71.62	26.109	
15,000.00	11,480.00	15,266.66	11,480.00	31.15	44.83	-90.00	-3,027.09	2,149.16	1,870.00	1,797.31	72.69	25.726	
15,100.00	11,480.00	15,366.66	11,480.00	31.65	45.27	-90.00	-3,127.09	2,149.60	1,870.00	1,796.23	73.77	25.349	
15,200.00	11,480.00	15,466.66	11,480.00	32.17	45.71	-90.00	-3,227.09	2,150.04	1,870.00	1,795.13	74.87	24.977	
15,300.00	11,480.00	15,566.66	11,480.00	32.71	46.17	-90.00	-3,327.09	2,150.48	1,870.00	1,794.02	75.98	24.612	
15,400.00	11,480.00	15,666.66	11,480.00	33.27	46.63	-90.00	-3,427.09	2,150.92	1,870.00	1,792.90	77.11	24.253	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+IFR1+MS													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.00	11,480.00	15,766.66	11,480.00	33.84	47.10	-90.00	-3,527.09	2,151.35	1,870.00	1,791.76	78.24	23.900	
15,600.00	11,480.00	15,866.66	11,480.00	34.43	47.58	-90.00	-3,627.09	2,151.79	1,870.00	1,790.61	79.39	23.553	
15,700.00	11,480.00	15,966.66	11,480.00	35.03	48.06	-90.00	-3,727.08	2,152.23	1,870.00	1,789.44	80.56	23.213	
15,800.00	11,480.00	16,066.66	11,480.00	35.64	48.55	-90.00	-3,827.08	2,152.67	1,870.00	1,788.27	81.73	22.880	
15,900.00	11,480.00	16,166.66	11,480.00	36.26	49.05	-90.00	-3,927.08	2,153.11	1,870.00	1,787.08	82.92	22.552	
16,000.00	11,480.00	16,266.66	11,480.00	36.89	49.55	-90.00	-4,027.08	2,153.54	1,870.00	1,785.89	84.11	22.232	
16,100.00	11,480.00	16,366.66	11,480.00	37.53	50.06	-90.00	-4,127.08	2,153.98	1,870.00	1,784.68	85.32	21.917	
16,200.00	11,480.00	16,466.66	11,480.00	38.17	50.58	-90.00	-4,227.08	2,154.42	1,870.00	1,783.46	86.54	21.609	
16,300.00	11,480.00	16,566.66	11,480.00	38.83	51.10	-90.00	-4,327.08	2,154.86	1,870.00	1,782.24	87.76	21.307	
16,400.00	11,480.00	16,666.66	11,480.00	39.48	51.63	-90.00	-4,427.08	2,155.30	1,870.00	1,781.00	89.00	21.011	
16,500.00	11,480.00	16,766.66	11,480.00	40.15	52.16	-90.00	-4,527.08	2,155.73	1,870.00	1,779.76	90.24	20.722	
16,600.00	11,480.00	16,866.66	11,480.00	40.82	52.70	-90.00	-4,627.08	2,156.17	1,870.00	1,778.51	91.50	20.438	
16,700.00	11,480.00	16,966.66	11,480.00	41.50	53.24	-90.00	-4,727.07	2,156.61	1,870.00	1,777.25	92.76	20.160	
16,800.00	11,480.00	17,066.66	11,480.00	42.18	53.79	-90.00	-4,827.07	2,157.05	1,870.00	1,775.98	94.02	19.889	
16,900.00	11,480.00	17,166.66	11,480.00	42.86	54.35	-90.00	-4,927.07	2,157.49	1,870.00	1,774.70	95.30	19.622	
17,000.00	11,480.00	17,266.66	11,480.00	43.55	54.91	-90.00	-5,027.07	2,157.93	1,870.00	1,773.42	96.58	19.362	
17,100.00	11,480.00	17,366.66	11,480.00	44.24	55.47	-90.00	-5,127.07	2,158.36	1,870.00	1,772.13	97.87	19.107	
17,200.00	11,480.00	17,466.66	11,480.00	44.94	56.04	-90.00	-5,227.07	2,158.80	1,870.00	1,770.83	99.17	18.857	
17,300.00	11,480.00	17,566.66	11,480.00	45.63	56.61	-90.00	-5,327.07	2,159.24	1,870.00	1,769.53	100.47	18.612	
17,400.00	11,480.00	17,666.66	11,480.00	46.34	57.19	-90.00	-5,427.07	2,159.68	1,870.00	1,768.22	101.78	18.373	
17,500.00	11,480.00	17,766.66	11,480.00	47.04	57.77	-90.00	-5,527.07	2,160.12	1,870.00	1,766.91	103.10	18.139	
17,600.00	11,480.00	17,866.66	11,480.00	47.75	58.36	-90.00	-5,627.07	2,160.55	1,870.00	1,765.59	104.42	17.909	
17,700.00	11,480.00	17,966.66	11,480.00	48.46	58.95	-90.00	-5,727.07	2,160.99	1,870.00	1,764.26	105.74	17.684	
17,800.00	11,480.00	18,066.66	11,480.00	49.17	59.54	-90.00	-5,827.06	2,161.43	1,870.00	1,762.93	107.07	17.464	
17,900.00	11,480.00	18,166.66	11,480.00	49.88	60.14	-90.00	-5,927.06	2,161.87	1,870.00	1,761.59	108.41	17.249	
18,000.00	11,480.00	18,266.66	11,480.00	50.60	60.74	-90.00	-6,027.06	2,162.31	1,870.00	1,760.25	109.75	17.038	
18,100.00	11,480.00	18,366.66	11,480.00	51.31	61.35	-90.00	-6,127.06	2,162.74	1,870.00	1,758.90	111.10	16.832	
18,200.00	11,480.00	18,466.66	11,480.00	52.03	61.96	-90.00	-6,227.06	2,163.18	1,870.00	1,757.55	112.45	16.629	
18,300.00	11,480.00	18,566.66	11,480.00	52.75	62.57	-90.00	-6,327.06	2,163.62	1,870.00	1,756.19	113.81	16.431	
18,400.00	11,480.00	18,666.66	11,480.00	53.47	63.18	-90.00	-6,427.06	2,164.06	1,870.00	1,754.83	115.17	16.237	
18,500.00	11,480.00	18,766.66	11,480.00	54.20	63.80	-90.00	-6,527.06	2,164.50	1,870.00	1,753.47	116.53	16.047	
18,600.00	11,480.00	18,866.66	11,480.00	54.92	64.43	-90.00	-6,627.06	2,164.94	1,870.00	1,752.10	117.90	15.861	
18,700.00	11,480.00	18,966.66	11,480.00	55.65	65.05	-90.00	-6,727.06	2,165.37	1,870.00	1,750.73	119.27	15.678	
18,800.00	11,480.00	19,066.66	11,480.00	56.38	65.68	-90.00	-6,827.05	2,165.81	1,870.00	1,749.35	120.65	15.499	
18,900.00	11,480.00	19,166.66	11,480.00	57.11	66.31	-90.00	-6,927.05	2,166.25	1,870.00	1,747.97	122.03	15.324	
19,000.00	11,480.00	19,266.66	11,480.00	57.84	66.94	-90.00	-7,027.05	2,166.69	1,870.00	1,746.59	123.41	15.152	
19,100.00	11,480.00	19,366.66	11,480.00	58.57	67.58	-90.00	-7,127.05	2,167.13	1,870.00	1,745.20	124.80	14.984	
19,200.00	11,480.00	19,466.66	11,480.00	59.30	68.22	-90.00	-7,227.05	2,167.56	1,870.00	1,743.81	126.19	14.819	
19,300.00	11,480.00	19,566.66	11,480.00	60.04	68.86	-90.00	-7,327.05	2,168.00	1,870.00	1,742.41	127.59	14.657	
19,400.00	11,480.00	19,666.66	11,480.00	60.77	69.51	-90.00	-7,427.05	2,168.44	1,870.00	1,741.02	128.98	14.498	
19,500.00	11,480.00	19,766.66	11,480.00	61.51	70.16	-90.00	-7,527.05	2,168.88	1,870.00	1,739.62	130.38	14.342	
19,600.00	11,480.00	19,866.66	11,480.00	62.25	70.81	-90.00	-7,627.05	2,169.32	1,870.00	1,738.21	131.79	14.190	
19,700.00	11,480.00	19,966.66	11,480.00	62.98	71.46	-90.00	-7,727.05	2,169.75	1,870.00	1,736.81	133.19	14.040	
19,800.00	11,480.00	20,066.66	11,480.00	63.72	72.11	-90.00	-7,827.04	2,170.19	1,870.00	1,735.40	134.60	13.893	
19,900.00	11,480.00	20,166.66	11,480.00	64.46	72.77	-90.00	-7,927.04	2,170.63	1,870.00	1,733.99	136.01	13.749	
20,000.00	11,480.00	20,266.66	11,480.00	65.20	73.43	-90.00	-8,027.04	2,171.07	1,870.00	1,732.57	137.43	13.607	
20,100.00	11,480.00	20,366.66	11,480.00	65.94	74.09	-90.00	-8,127.04	2,171.51	1,870.00	1,731.16	138.84	13.468	
20,200.00	11,480.00	20,466.66	11,480.00	66.69	74.75	-90.00	-8,227.04	2,171.95	1,870.00	1,729.74	140.26	13.332	
20,300.00	11,480.00	20,566.66	11,480.00	67.43	75.42	-90.00	-8,327.04	2,172.38	1,870.00	1,728.32	141.69	13.198	
20,400.00	11,480.00	20,666.66	11,480.00	68.17	76.08	-90.00	-8,427.04	2,172.82	1,870.00	1,726.89	143.11	13.067	
20,500.00	11,480.00	20,766.66	11,480.00	68.91	76.75	-90.00	-8,527.04	2,173.26	1,870.00	1,725.46	144.54	12.938	
20,600.00	11,480.00	20,866.66	11,480.00	69.66	77.42	-90.00	-8,627.04	2,173.70	1,870.00	1,724.04	145.96	12.811	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IFR1+MS												Offset Well Error:	0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,700.00	11,480.00	20,966.66	11,480.00	70.40	78.10	-90.00	-8,727.04	2,174.14	1,870.00	1,722.61	147.39	12.687	
20,800.00	11,480.00	21,066.66	11,480.00	71.15	78.77	-90.00	-8,827.04	2,174.57	1,870.00	1,721.17	148.83	12.565	
20,900.00	11,480.00	21,166.66	11,480.00	71.90	79.45	-90.00	-8,927.03	2,175.01	1,870.00	1,719.74	150.26	12.445	
21,000.00	11,480.00	21,266.66	11,480.00	72.64	80.12	-90.00	-9,027.03	2,175.45	1,870.00	1,718.30	151.70	12.327	
21,100.00	11,480.00	21,366.66	11,480.00	73.39	80.80	-90.00	-9,127.03	2,175.89	1,870.00	1,716.86	153.14	12.211	
21,200.00	11,480.00	21,466.66	11,480.00	74.14	81.48	-90.00	-9,227.03	2,176.33	1,870.00	1,715.42	154.58	12.097	
21,300.00	11,480.00	21,566.66	11,480.00	74.88	82.17	-90.00	-9,327.03	2,176.76	1,870.00	1,713.98	156.02	11.986	
21,400.00	11,480.00	21,666.66	11,480.00	75.63	82.85	-90.00	-9,427.03	2,177.20	1,870.00	1,712.53	157.47	11.876	
21,500.00	11,480.00	21,766.66	11,480.00	76.38	83.54	-90.00	-9,527.03	2,177.64	1,870.00	1,711.09	158.91	11.768	
21,600.00	11,480.00	21,866.66	11,480.00	77.13	84.22	-90.00	-9,627.03	2,178.08	1,870.00	1,709.64	160.36	11.661	
21,700.00	11,480.00	21,966.66	11,480.00	77.88	84.91	-90.00	-9,727.03	2,178.52	1,870.00	1,708.19	161.81	11.557	
21,800.00	11,480.00	22,066.66	11,480.00	78.63	85.60	-90.00	-9,827.03	2,178.96	1,870.00	1,706.74	163.26	11.454	
21,900.00	11,480.00	22,166.66	11,480.00	79.38	86.29	-90.00	-9,927.02	2,179.39	1,870.00	1,705.29	164.71	11.353	
22,000.00	11,480.00	22,266.66	11,480.00	80.13	86.99	-90.00	-10,027.02	2,179.83	1,870.00	1,703.83	166.17	11.254	
22,100.00	11,480.00	22,366.66	11,480.00	80.89	87.68	-90.00	-10,127.02	2,180.27	1,870.00	1,702.38	167.62	11.156	
22,200.00	11,480.00	22,466.66	11,480.00	81.64	88.38	-90.00	-10,227.02	2,180.71	1,870.00	1,700.92	169.08	11.060	
22,300.00	11,480.00	22,566.66	11,480.00	82.39	89.07	-90.00	-10,327.02	2,181.15	1,870.00	1,699.46	170.54	10.965	
22,316.59	11,480.00	22,583.25	11,480.00	82.51	89.19	-90.00	-10,343.61	2,181.22	1,870.00	1,699.22	170.78	10.950	
22,318.54	11,480.00	22,584.05	11,480.00	82.53	89.19	-90.00	-10,344.41	2,181.22	1,870.00	1,699.19	170.81	10.948 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.50 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.50	0.50	180.00	-20.00	0.00	20.00				
100.00	100.00	100.00	100.00	0.66	0.66	180.00	-20.00	0.00	20.00	18.68	1.32	15.184	
121.13	121.13	121.13	121.13	0.78	0.78	180.00	-20.00	0.00	20.00	18.43	1.57	12.769	
200.00	200.00	200.00	200.00	1.35	1.35	180.00	-20.00	0.00	20.00	17.30	2.70	7.415	
221.13	221.13	221.13	221.13	1.45	1.45	180.00	-20.00	0.00	20.00	17.11	2.89	6.915	
300.00	300.00	300.00	300.00	1.82	1.82	180.00	-20.00	0.00	20.00	16.37	3.63	5.503	
315.00	315.00	315.00	315.00	1.87	1.87	180.00	-20.00	0.00	20.00	16.25	3.75	5.340	
400.00	400.00	400.00	400.00	2.19	2.19	180.00	-20.00	0.00	20.00	15.62	4.38	4.565	
426.19	426.19	426.19	426.19	2.27	2.27	180.00	-20.00	0.00	20.00	15.45	4.55	4.397	
500.00	500.00	500.00	500.00	2.51	2.51	180.00	-20.00	0.00	20.00	14.98	5.02	3.982	
521.13	521.13	521.13	521.13	2.57	2.57	180.00	-20.00	0.00	20.00	14.86	5.14	3.888	
600.00	600.00	600.00	600.00	2.80	2.80	180.00	-20.00	0.00	20.00	14.40	5.60	3.574	
621.13	621.13	621.13	621.13	2.85	2.85	180.00	-20.00	0.00	20.00	14.29	5.71	3.504	
700.00	700.00	700.00	700.00	3.06	3.06	180.00	-20.00	0.00	20.00	13.88	6.12	3.267	
721.13	721.13	721.13	721.13	3.11	3.11	180.00	-20.00	0.00	20.00	13.78	6.22	3.213	
800.00	800.00	800.00	800.00	3.30	3.30	180.00	-20.00	0.00	20.00	13.39	6.61	3.027	
821.13	821.13	821.13	821.13	3.35	3.35	180.00	-20.00	0.00	20.00	13.30	6.70	2.983	
900.00	900.00	900.00	900.00	3.53	3.53	180.00	-20.00	0.00	20.00	12.93	7.07	2.831	
921.13	921.13	921.13	921.13	3.58	3.58	180.00	-20.00	0.00	20.00	12.84	7.16	2.795	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	180.00	-20.00	0.00	20.00	12.50	7.50	2.667	
1,021.13	1,021.13	1,021.13	1,021.13	3.79	3.79	180.00	-20.00	0.00	20.00	12.41	7.59	2.637	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	180.00	-20.00	0.00	20.00	12.09	7.91	2.528	
1,121.13	1,121.13	1,121.13	1,121.13	4.00	4.00	180.00	-20.00	0.00	20.00	12.01	7.99	2.502	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	180.00	-20.00	0.00	20.00	11.69	8.31	2.408	
1,221.13	1,221.13	1,221.13	1,221.13	4.19	4.19	180.00	-20.00	0.00	20.00	11.61	8.39	2.385	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	180.00	-20.00	0.00	20.00	11.31	8.69	2.302	
1,321.13	1,321.13	1,321.13	1,321.13	4.38	4.38	180.00	-20.00	0.00	20.00	11.24	8.76	2.282	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	180.00	-20.00	0.00	20.00	10.95	9.05	2.209	
1,421.13	1,421.13	1,421.13	1,421.13	4.56	4.56	180.00	-20.00	0.00	20.00	10.87	9.13	2.191	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	180.00	-20.00	0.00	20.00	10.59	9.41	2.125 CC	
1,600.00	1,599.98	1,600.55	1,600.53	5.06	5.05	157.42	-18.62	1.10	20.26	10.23	10.02	2.021	
1,700.00	1,699.84	1,701.08	1,700.91	5.70	5.69	153.70	-14.48	4.39	21.09	10.11	10.98	1.920	Collision Risk Procedures Req., ES, SF
1,800.00	1,799.45	1,801.57	1,801.02	6.30	6.30	148.17	-7.58	9.86	22.65	10.92	11.72	1.932	Collision Risk Procedures Req.
1,900.00	1,898.70	1,902.02	1,900.70	6.88	6.87	141.66	2.05	17.52	25.13	12.89	12.24	2.053	
2,000.00	1,997.53	2,002.39	1,999.82	7.10	7.42	134.53	14.40	27.33	28.41	16.10	12.30	2.309	
2,100.00	2,096.28	2,102.48	2,098.09	7.32	7.71	124.08	29.25	39.13	31.22	19.17	12.05	2.591	
2,200.00	2,195.04	2,202.26	2,195.92	7.57	7.94	114.41	44.62	51.34	34.78	22.81	11.97	2.906	
2,300.00	2,293.79	2,302.04	2,293.75	7.83	8.20	106.71	59.99	63.55	39.14	27.04	12.10	3.235	
2,400.00	2,392.54	2,401.82	2,391.59	8.12	8.48	100.64	75.35	75.75	44.06	31.69	12.37	3.562	
2,500.00	2,491.30	2,501.60	2,489.42	8.41	8.78	95.83	90.72	87.96	49.37	36.64	12.73	3.878	
2,600.00	2,590.05	2,601.39	2,587.25	8.73	9.09	91.97	106.09	100.17	54.96	41.81	13.15	4.180	
2,700.00	2,688.81	2,701.17	2,685.09	9.05	9.41	88.84	121.45	112.38	60.76	47.16	13.60	4.467	
2,800.00	2,787.56	2,800.95	2,782.92	9.38	9.75	86.25	136.82	124.59	66.70	52.62	14.08	4.738	
2,900.00	2,886.31	2,900.73	2,880.75	9.72	10.10	84.10	152.19	136.79	72.76	58.19	14.57	4.993	
3,000.00	2,985.07	3,000.51	2,978.58	10.07	10.45	82.27	167.55	149.00	78.91	63.83	15.08	5.234	
3,100.00	3,083.82	3,100.30	3,076.42	10.42	10.82	80.71	182.92	161.21	85.12	69.53	15.59	5.460	
3,200.00	3,182.58	3,200.08	3,174.25	10.79	11.19	79.37	198.29	173.42	91.39	75.27	16.11	5.672	
3,300.00	3,281.33	3,299.86	3,272.08	11.16	11.57	78.19	213.65	185.63	97.70	81.06	16.64	5.871	
3,400.00	3,380.08	3,399.64	3,369.92	11.53	11.95	77.16	229.02	197.83	104.04	86.87	17.18	6.057	
3,500.00	3,478.84	3,499.42	3,467.75	11.91	12.34	76.25	244.39	210.04	110.42	92.70	17.72	6.232	
3,600.00	3,577.59	3,599.21	3,565.58	12.30	12.74	75.44	259.76	222.25	116.82	98.56	18.26	6.397	
3,700.00	3,676.34	3,698.99	3,663.41	12.68	13.14	74.71	275.12	234.46	123.24	104.43	18.81	6.551	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.50 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
3,800.00	3,775.10	3,798.77	3,761.25	13.08	13.55	74.06	290.49	246.67	129.68	110.32	19.37	6.696	
3,900.00	3,873.85	3,898.55	3,859.08	13.47	13.95	73.46	305.86	258.88	136.14	116.21	19.92	6.833	
4,000.00	3,972.61	3,998.33	3,956.91	13.87	14.37	72.93	321.22	271.08	142.61	122.12	20.49	6.961	
4,100.00	4,071.36	4,098.12	4,054.75	14.27	14.78	72.43	336.59	283.29	149.09	128.03	21.05	7.082	
4,200.00	4,170.11	4,197.90	4,152.58	14.67	15.20	71.98	351.96	295.50	155.58	133.96	21.62	7.196	
4,300.00	4,268.87	4,297.68	4,250.41	15.08	15.63	71.57	367.32	307.71	162.07	139.88	22.19	7.304	
4,400.00	4,367.62	4,397.46	4,348.24	15.49	16.05	71.18	382.69	319.92	168.58	145.82	22.76	7.405	
4,500.00	4,466.38	4,497.24	4,446.08	15.90	16.48	70.83	398.06	332.12	175.09	151.75	23.34	7.501	
4,600.00	4,565.13	4,597.03	4,543.91	16.31	16.91	70.50	413.42	344.33	181.61	157.69	23.92	7.592	
4,700.00	4,663.88	4,696.81	4,641.74	16.72	17.34	70.19	428.79	356.54	188.14	163.64	24.50	7.679	
4,800.00	4,762.64	4,796.59	4,739.58	17.14	17.77	69.91	444.16	368.75	194.67	169.58	25.09	7.760	
4,900.00	4,861.39	4,896.37	4,837.41	17.56	18.21	69.64	459.52	380.96	201.20	175.53	25.67	7.838	
5,000.00	4,960.15	4,996.15	4,935.24	17.98	18.64	69.39	474.89	393.16	207.74	181.48	26.26	7.911	
5,100.00	5,058.90	5,095.94	5,033.07	18.40	19.08	69.15	490.26	405.37	214.29	187.44	26.85	7.981	
5,200.00	5,157.65	5,195.72	5,130.91	18.82	19.52	68.93	505.62	417.58	220.83	193.39	27.44	8.048	
5,300.00	5,256.41	5,295.50	5,228.74	19.24	19.96	68.72	520.99	429.79	227.38	199.35	28.03	8.111	
5,400.00	5,355.16	5,395.28	5,326.57	19.66	20.40	68.53	536.36	442.00	233.93	205.31	28.63	8.172	
5,500.00	5,453.91	5,495.06	5,424.41	20.09	20.85	68.34	551.72	454.20	240.49	211.26	29.22	8.230	
5,600.00	5,552.67	5,594.85	5,522.24	20.51	21.29	68.16	567.09	466.41	247.04	217.22	29.82	8.285	
5,700.00	5,651.42	5,694.63	5,620.07	20.94	21.74	68.00	582.46	478.62	253.60	223.18	30.42	8.337	
5,800.00	5,750.18	5,794.41	5,717.91	21.37	22.19	67.84	597.82	490.83	260.16	229.15	31.02	8.388	
5,900.00	5,848.93	5,894.19	5,815.74	21.79	22.63	67.69	613.19	503.04	266.73	235.11	31.62	8.436	
6,000.00	5,947.68	5,993.97	5,913.57	22.22	23.08	67.54	628.56	515.25	273.29	241.07	32.22	8.482	
6,100.00	6,046.44	6,098.80	6,016.56	22.65	23.55	67.58	643.81	527.36	279.17	246.39	32.78	8.516	
6,200.00	6,145.43	6,205.31	6,121.86	23.11	24.09	67.97	656.35	537.33	283.39	250.12	33.27	8.519	
6,300.00	6,244.86	6,311.92	6,227.78	23.60	24.62	68.25	665.83	544.86	286.58	252.86	33.72	8.498	
6,400.00	6,344.60	6,418.61	6,334.14	24.07	25.12	68.44	672.22	549.93	288.73	254.61	34.12	8.462	
6,500.00	6,444.53	6,525.34	6,440.78	24.48	25.52	68.54	675.50	552.54	289.84	255.42	34.42	8.420	
6,600.00	6,544.52	6,629.08	6,544.52	24.59	25.66	89.83	675.98	552.92	290.00	255.49	34.51	8.403	
6,700.00	6,644.52	6,729.08	6,644.52	24.63	25.70	89.83	675.98	552.92	290.00	255.37	34.63	8.375	
6,800.00	6,744.52	6,829.08	6,744.52	24.68	25.74	89.83	675.98	552.92	290.00	255.25	34.75	8.344	
6,900.00	6,844.52	6,929.08	6,844.52	24.72	25.79	89.83	675.98	552.92	290.00	255.12	34.88	8.314	
7,000.00	6,944.52	7,029.08	6,944.52	24.77	25.83	89.83	675.98	552.92	290.00	254.99	35.01	8.284	
7,100.00	7,044.52	7,129.08	7,044.52	24.82	25.87	89.83	675.98	552.92	290.00	254.87	35.13	8.254	
7,200.00	7,144.52	7,229.08	7,144.52	24.87	25.91	89.83	675.98	552.92	290.00	254.74	35.26	8.225	
7,300.00	7,244.52	7,329.08	7,244.52	24.91	25.96	89.83	675.98	552.92	290.00	254.61	35.39	8.195	
7,400.00	7,344.52	7,429.08	7,344.52	24.96	26.00	89.83	675.98	552.92	290.00	254.49	35.51	8.166	
7,500.00	7,444.52	7,529.08	7,444.52	25.01	26.05	89.83	675.98	552.92	290.00	254.36	35.64	8.137	
7,600.00	7,544.52	7,629.08	7,544.52	25.06	26.09	89.83	675.98	552.92	290.00	254.23	35.77	8.108	
7,700.00	7,644.52	7,729.08	7,644.52	25.10	26.13	89.83	675.98	552.92	290.00	254.10	35.90	8.079	
7,800.00	7,744.52	7,829.08	7,744.52	25.15	26.18	89.83	675.98	552.92	290.00	253.98	36.03	8.050	
7,900.00	7,844.52	7,929.08	7,844.52	25.20	26.22	89.83	675.98	552.92	290.00	253.85	36.15	8.021	
8,000.00	7,944.52	8,029.08	7,944.52	25.25	26.27	89.83	675.98	552.92	290.00	253.72	36.28	7.993	
8,100.00	8,044.52	8,129.08	8,044.52	25.30	26.31	89.83	675.98	552.92	290.00	253.59	36.41	7.965	
8,200.00	8,144.52	8,229.08	8,144.52	25.35	26.36	89.83	675.98	552.92	290.00	253.46	36.54	7.936	
8,300.00	8,244.52	8,329.08	8,244.52	25.40	26.40	89.83	675.98	552.92	290.00	253.33	36.67	7.908	
8,400.00	8,344.52	8,429.08	8,344.52	25.45	26.45	89.83	675.98	552.92	290.00	253.20	36.80	7.881	
8,500.00	8,444.52	8,529.08	8,444.52	25.49	26.50	89.83	675.98	552.92	290.00	253.07	36.93	7.853	
8,600.00	8,544.52	8,629.08	8,544.52	25.54	26.54	89.83	675.98	552.92	290.00	252.94	37.06	7.825	
8,700.00	8,644.52	8,729.08	8,644.52	25.59	26.59	89.83	675.98	552.92	290.00	252.81	37.19	7.798	
8,800.00	8,744.52	8,829.08	8,744.52	25.64	26.63	89.83	675.98	552.92	290.00	252.68	37.32	7.771	
8,900.00	8,844.52	8,929.08	8,844.52	25.69	26.68	89.83	675.98	552.92	290.00	252.55	37.45	7.743	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.50 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,000.00	8,944.52	9,029.08	8,944.52	25.74	26.73	89.83	675.98	552.92	290.00	252.42	37.58	7.716	
9,100.00	9,044.52	9,129.08	9,044.52	25.79	26.77	89.83	675.98	552.92	290.00	252.29	37.71	7.690	
9,200.00	9,144.52	9,229.08	9,144.52	25.85	26.82	89.83	675.98	552.92	290.00	252.16	37.84	7.663	
9,300.00	9,244.52	9,329.08	9,244.52	25.90	26.87	89.83	675.98	552.92	290.00	252.02	37.98	7.636	
9,400.00	9,344.52	9,429.08	9,344.52	25.95	26.91	89.83	675.98	552.92	290.00	251.89	38.11	7.610	
9,500.00	9,444.52	9,529.08	9,444.52	26.00	26.96	89.83	675.98	552.92	290.00	251.76	38.24	7.584	
9,600.00	9,544.52	9,629.08	9,544.52	26.05	27.01	89.83	675.98	552.92	290.00	251.63	38.37	7.557	
9,700.00	9,644.52	9,729.08	9,644.52	26.10	27.06	89.83	675.98	552.92	290.00	251.50	38.51	7.531	
9,800.00	9,744.52	9,829.08	9,744.52	26.15	27.10	89.83	675.98	552.92	290.00	251.36	38.64	7.506	
9,900.00	9,844.52	9,929.08	9,844.52	26.20	27.15	89.83	675.98	552.92	290.00	251.23	38.77	7.480	
10,000.00	9,944.52	10,029.08	9,944.52	26.25	27.20	89.83	675.98	552.92	290.00	251.10	38.90	7.454	
10,100.00	10,044.52	10,129.08	10,044.52	26.31	27.25	89.83	675.98	552.92	290.00	250.96	39.04	7.429	
10,200.00	10,144.52	10,229.08	10,144.52	26.36	27.30	89.83	675.98	552.92	290.00	250.83	39.17	7.403	
10,300.00	10,244.52	10,329.08	10,244.52	26.41	27.35	89.83	675.98	552.92	290.00	250.70	39.30	7.378	
10,400.00	10,344.52	10,429.08	10,344.52	26.46	27.40	89.83	675.98	552.92	290.00	250.56	39.44	7.353	
10,500.00	10,444.52	10,529.08	10,444.52	26.52	27.44	89.83	675.98	552.92	290.00	250.43	39.57	7.328	
10,600.00	10,544.52	10,629.08	10,544.52	26.57	27.49	89.83	675.98	552.92	290.00	250.29	39.71	7.304	
10,700.00	10,644.52	10,729.08	10,644.52	26.62	27.54	89.83	675.98	552.92	290.00	250.16	39.84	7.279	
10,800.00	10,744.52	10,829.08	10,744.52	26.67	27.59	89.83	675.98	552.92	290.00	250.03	39.98	7.254	
10,900.00	10,844.52	10,929.08	10,844.52	26.73	27.64	89.83	675.98	552.92	290.00	249.89	40.11	7.230	
10,935.44	10,879.96	10,964.52	10,879.96	26.72	27.66	-90.00	675.98	552.92	290.00	249.83	40.17	7.219	
11,000.00	10,944.50	11,029.05	10,944.50	26.72	27.69	-90.16	675.98	552.92	290.00	249.72	40.28	7.199	
11,100.00	11,043.21	11,127.76	11,043.21	26.63	27.74	-93.07	675.98	552.92	290.44	249.23	41.21	7.048	
11,200.00	11,137.78	11,222.34	11,137.78	26.50	27.79	-98.63	675.98	552.92	293.96	250.80	43.17	6.810	
11,300.00	11,225.34	11,309.90	11,225.34	26.34	27.83	-105.41	675.98	552.92	305.52	259.58	45.94	6.650	
11,400.00	11,303.23	11,387.79	11,303.23	26.17	27.87	-111.56	675.98	552.92	330.56	281.70	48.86	6.765	
11,500.00	11,369.09	11,453.65	11,369.09	25.99	27.90	-115.48	675.98	552.92	372.47	321.34	51.13	7.284	
11,600.00	11,420.90	11,501.04	11,485.82	25.84	27.79	-123.98	665.61	551.94	427.84	376.56	51.28	8.343	
11,700.00	11,457.10	11,737.21	11,641.96	25.72	27.55	-134.08	610.88	546.77	484.85	435.05	49.79	9.737	
11,800.00	11,476.59	12,159.09	11,914.58	25.66	26.95	-150.66	303.01	517.66	524.18	476.25	47.93	10.937	
11,900.00	11,480.00	12,419.62	11,950.00	25.66	27.07	-154.08	47.75	494.12	522.89	473.28	49.61	10.540	
12,000.00	11,480.00	12,512.14	11,950.00	25.68	27.23	-154.65	-44.61	488.78	520.19	470.22	49.98	10.409	
12,100.00	11,480.00	12,604.92	11,950.00	25.71	27.42	-154.92	-137.36	486.41	518.92	468.61	50.30	10.316	
12,142.33	11,480.00	12,644.25	11,950.00	25.72	27.51	-154.95	-176.68	486.31	518.80	468.37	50.42	10.289	
12,200.00	11,480.00	12,701.90	11,950.00	25.74	27.64	-154.95	-234.34	486.57	518.80	468.18	50.62	10.249	
12,300.00	11,480.00	12,801.90	11,950.00	25.77	27.91	-154.95	-334.34	487.01	518.80	467.79	51.01	10.170	
12,400.00	11,480.00	12,901.90	11,950.00	25.81	28.21	-154.95	-434.34	487.45	518.80	467.34	51.46	10.082	
12,500.00	11,480.00	13,001.90	11,950.00	25.86	28.56	-154.95	-534.34	487.89	518.80	466.84	51.96	9.984	
12,600.00	11,480.00	13,101.90	11,950.00	25.91	28.97	-154.95	-634.34	488.33	518.80	466.28	52.52	9.878	
12,700.00	11,480.00	13,201.90	11,950.00	25.97	29.42	-154.95	-734.34	488.78	518.80	465.68	53.12	9.766	
12,800.00	11,480.00	13,301.90	11,950.00	26.03	29.93	-154.95	-834.33	489.22	518.81	465.03	53.78	9.647	
12,900.00	11,480.00	13,401.90	11,950.00	26.10	30.50	-154.95	-934.33	489.66	518.81	464.33	54.48	9.523	
13,000.00	11,480.00	13,501.90	11,950.00	26.18	31.13	-154.95	-1,034.33	490.10	518.81	463.59	55.22	9.395	
13,100.00	11,480.00	13,601.90	11,950.00	26.26	31.81	-154.95	-1,134.33	490.54	518.81	462.80	56.01	9.263	
13,200.00	11,480.00	13,701.90	11,950.00	26.36	32.56	-154.95	-1,234.33	490.98	518.81	461.97	56.84	9.128	
13,300.00	11,480.00	13,801.90	11,950.00	26.46	33.36	-154.95	-1,334.33	491.43	518.81	461.10	57.71	8.990	
13,400.00	11,480.00	13,901.90	11,950.00	26.58	34.21	-154.95	-1,434.33	491.87	518.81	460.20	58.62	8.851	
13,500.00	11,480.00	14,001.90	11,950.00	26.71	35.11	-154.95	-1,534.33	492.31	518.82	459.26	59.56	8.711	
13,600.00	11,480.00	14,101.90	11,950.00	26.85	36.05	-154.95	-1,634.33	492.75	518.82	458.28	60.54	8.571	
13,700.00	11,480.00	14,201.90	11,950.00	27.00	37.04	-154.95	-1,734.33	493.19	518.82	457.27	61.54	8.430	
13,800.00	11,480.00	14,301.90	11,950.00	27.18	38.06	-154.94	-1,834.33	493.63	518.82	456.23	62.59	8.290	
13,900.00	11,480.00	14,401.90	11,950.00	27.37	39.12	-154.94	-1,934.32	494.07	518.82	455.17	63.66	8.150	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft		
Survey Program:		0-MWD+HRGM		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
14,000.00	11,480.00	14,501.90	11,950.00	27.58	40.21	-154.94	-2,034.32	494.52	518.82	454.07	64.75	8.012			
14,100.00	11,480.00	14,601.90	11,950.00	27.82	41.33	-154.94	-2,134.32	494.96	518.82	452.94	65.88	7.875			
14,200.00	11,480.00	14,701.90	11,950.00	28.08	42.47	-154.94	-2,234.32	495.40	518.83	451.80	67.03	7.740			
14,300.00	11,480.00	14,801.90	11,950.00	28.37	43.63	-154.94	-2,334.32	495.84	518.83	450.62	68.21	7.607			
14,400.00	11,480.00	14,901.90	11,950.00	28.68	44.82	-154.94	-2,434.32	496.28	518.83	449.43	69.40	7.476			
14,500.00	11,480.00	15,001.90	11,950.00	29.02	46.02	-154.94	-2,534.32	496.72	518.83	448.21	70.62	7.347			
14,600.00	11,480.00	15,101.90	11,950.00	29.39	47.24	-154.94	-2,634.32	497.16	518.83	446.97	71.86	7.220			
14,700.00	11,480.00	15,201.90	11,950.00	29.79	48.47	-154.94	-2,734.32	497.61	518.83	445.71	73.12	7.096			
14,800.00	11,480.00	15,301.90	11,950.00	30.22	49.72	-154.94	-2,834.32	498.05	518.83	444.44	74.40	6.974			
14,900.00	11,480.00	15,401.90	11,950.00	30.67	50.98	-154.94	-2,934.31	498.49	518.84	443.14	75.69	6.854			
15,000.00	11,480.00	15,501.90	11,950.00	31.15	52.26	-154.94	-3,034.31	498.93	518.84	441.83	77.00	6.738			
15,100.00	11,480.00	15,601.90	11,950.00	31.65	53.54	-154.94	-3,134.31	499.37	518.84	440.51	78.33	6.624			
15,200.00	11,480.00	15,701.90	11,950.00	32.17	54.83	-154.94	-3,234.31	499.81	518.84	439.17	79.68	6.512			
15,300.00	11,480.00	15,801.90	11,950.00	32.71	56.13	-154.94	-3,334.31	500.26	518.84	437.81	81.03	6.403			
15,400.00	11,480.00	15,901.90	11,950.00	33.27	57.44	-154.94	-3,434.31	500.70	518.84	436.44	82.40	6.296			
15,500.00	11,480.00	16,001.90	11,950.00	33.84	58.76	-154.94	-3,534.31	501.14	518.84	435.06	83.79	6.192			
15,600.00	11,480.00	16,101.90	11,950.00	34.43	60.08	-154.94	-3,634.31	501.58	518.85	433.66	85.18	6.091			
15,700.00	11,480.00	16,201.90	11,950.00	35.03	61.41	-154.94	-3,734.31	502.02	518.85	432.26	86.59	5.992			
15,800.00	11,480.00	16,301.90	11,950.00	35.64	62.75	-154.94	-3,834.31	502.46	518.85	430.84	88.01	5.895			
15,900.00	11,480.00	16,401.90	11,950.00	36.26	64.09	-154.94	-3,934.30	502.90	518.85	429.41	89.44	5.801			
16,000.00	11,480.00	16,501.90	11,950.00	36.89	65.44	-154.94	-4,034.30	503.35	518.85	427.98	90.88	5.709			
16,100.00	11,480.00	16,601.90	11,950.00	37.53	66.79	-154.94	-4,134.30	503.79	518.85	426.53	92.33	5.620			
16,200.00	11,480.00	16,701.90	11,950.00	38.17	68.15	-154.94	-4,234.30	504.23	518.85	425.07	93.78	5.532			
16,300.00	11,480.00	16,801.90	11,950.00	38.83	69.51	-154.94	-4,334.30	504.67	518.86	423.61	95.25	5.447			
16,400.00	11,480.00	16,901.90	11,950.00	39.48	70.87	-154.94	-4,434.30	505.11	518.86	422.13	96.73	5.364			
16,500.00	11,480.00	17,001.90	11,950.00	40.15	72.24	-154.94	-4,534.30	505.55	518.86	420.65	98.21	5.283			
16,600.00	11,480.00	17,101.90	11,950.00	40.82	73.61	-154.94	-4,634.30	505.99	518.86	419.16	99.70	5.204			
16,700.00	11,480.00	17,201.90	11,950.00	41.50	74.99	-154.94	-4,734.30	506.44	518.86	417.66	101.20	5.127			
16,800.00	11,480.00	17,301.90	11,950.00	42.18	76.36	-154.93	-4,834.30	506.88	518.86	416.16	102.70	5.052			
16,900.00	11,480.00	17,401.90	11,950.00	42.86	77.75	-154.93	-4,934.30	507.32	518.86	414.65	104.21	4.979			
17,000.00	11,480.00	17,501.90	11,950.00	43.55	79.13	-154.93	-5,034.29	507.76	518.87	413.13	105.73	4.907			
17,100.00	11,480.00	17,601.90	11,950.00	44.24	80.51	-154.93	-5,134.29	508.20	518.87	411.61	107.26	4.838			
17,200.00	11,480.00	17,701.90	11,950.00	44.94	81.90	-154.93	-5,234.29	508.64	518.87	410.08	108.79	4.770			
17,300.00	11,480.00	17,801.90	11,950.00	45.63	83.29	-154.93	-5,334.29	509.09	518.87	408.55	110.32	4.703			
17,400.00	11,480.00	17,901.90	11,950.00	46.34	84.69	-154.93	-5,434.29	509.53	518.87	407.01	111.86	4.638			
17,500.00	11,480.00	18,001.90	11,950.00	47.04	86.08	-154.93	-5,534.29	509.97	518.87	405.46	113.41	4.575			
17,600.00	11,480.00	18,101.90	11,950.00	47.75	87.48	-154.93	-5,634.29	510.41	518.87	403.91	114.96	4.513			
17,700.00	11,480.00	18,201.90	11,950.00	48.46	88.88	-154.93	-5,734.29	510.85	518.88	402.36	116.52	4.453			
17,800.00	11,480.00	18,301.90	11,950.00	49.17	90.28	-154.93	-5,834.29	511.29	518.88	400.80	118.08	4.394			
17,900.00	11,480.00	18,401.90	11,950.00	49.88	91.68	-154.93	-5,934.29	511.73	518.88	399.23	119.64	4.337			
18,000.00	11,480.00	18,501.90	11,950.00	50.60	93.08	-154.93	-6,034.28	512.18	518.88	397.67	121.21	4.281			
18,100.00	11,480.00	18,601.90	11,950.00	51.31	94.49	-154.93	-6,134.28	512.62	518.88	396.10	122.79	4.226			
18,200.00	11,480.00	18,701.90	11,950.00	52.03	95.89	-154.93	-6,234.28	513.06	518.88	394.52	124.36	4.172			
18,300.00	11,480.00	18,801.90	11,950.00	52.75	97.30	-154.93	-6,334.28	513.50	518.88	392.94	125.94	4.120			
18,400.00	11,480.00	18,901.90	11,950.00	53.47	98.71	-154.93	-6,434.28	513.94	518.89	391.36	127.53	4.069			
18,500.00	11,480.00	19,001.90	11,950.00	54.20	100.12	-154.93	-6,534.28	514.38	518.89	389.77	129.12	4.019			
18,600.00	11,480.00	19,101.90	11,950.00	54.92	101.53	-154.93	-6,634.28	514.83	518.89	388.18	130.71	3.970			
18,700.00	11,480.00	19,201.90	11,950.00	55.65	102.95	-154.93	-6,734.28	515.27	518.89	386.59	132.30	3.922			
18,800.00	11,480.00	19,301.90	11,950.00	56.38	104.36	-154.93	-6,834.28	515.71	518.89	384.99	133.90	3.875			
18,900.00	11,480.00	19,401.90	11,950.00	57.11	105.77	-154.93	-6,934.28	516.15	518.89	383.39	135.50	3.829			
19,000.00	11,480.00	19,501.90	11,950.00	57.84	107.19	-154.93	-7,034.27	516.59	518.89	381.79	137.11	3.785			
19,100.00	11,480.00	19,601.90	11,950.00	58.57	108.61	-154.93	-7,134.27	517.03	518.90	380.18	138.71	3.741			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Offset Design: Millie Mile Pad - Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3											Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM											Offset Well Error:	0.50 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
19,200.00	11,480.00	19,701.90	11,950.00	59.30	110.02	-154.93	-7,234.27	517.47	518.90	378.58	140.32	3.698
19,300.00	11,480.00	19,801.90	11,950.00	60.04	111.44	-154.93	-7,334.27	517.92	518.90	376.97	141.93	3.656
19,400.00	11,480.00	19,901.90	11,950.00	60.77	112.86	-154.93	-7,434.27	518.36	518.90	375.35	143.55	3.615
19,500.00	11,480.00	20,001.90	11,950.00	61.51	114.28	-154.93	-7,534.27	518.80	518.90	373.74	145.16	3.575
19,600.00	11,480.00	20,101.90	11,950.00	62.25	115.70	-154.93	-7,634.27	519.24	518.90	372.12	146.78	3.535
19,700.00	11,480.00	20,201.90	11,950.00	62.98	117.13	-154.93	-7,734.27	519.68	518.90	370.50	148.40	3.497
19,800.00	11,480.00	20,301.90	11,950.00	63.72	118.55	-154.92	-7,834.27	520.12	518.91	368.88	150.03	3.459
19,900.00	11,480.00	20,401.90	11,950.00	64.46	119.97	-154.92	-7,934.27	520.56	518.91	367.25	151.65	3.422
20,000.00	11,480.00	20,501.90	11,950.00	65.20	121.40	-154.92	-8,034.26	521.01	518.91	365.63	153.28	3.385
20,100.00	11,480.00	20,601.90	11,950.00	65.94	122.82	-154.92	-8,134.26	521.45	518.91	364.00	154.91	3.350
20,200.00	11,480.00	20,701.90	11,950.00	66.69	124.25	-154.92	-8,234.26	521.89	518.91	362.37	156.54	3.315
20,300.00	11,480.00	20,801.90	11,950.00	67.43	125.67	-154.92	-8,334.26	522.33	518.91	360.73	158.18	3.281
20,400.00	11,480.00	20,901.90	11,950.00	68.17	127.10	-154.92	-8,434.26	522.77	518.91	359.10	159.81	3.247
20,500.00	11,480.00	21,001.90	11,950.00	68.91	128.52	-154.92	-8,534.26	523.21	518.92	357.46	161.45	3.214
20,600.00	11,480.00	21,101.90	11,950.00	69.66	129.95	-154.92	-8,634.26	523.66	518.92	355.83	163.09	3.182
20,700.00	11,480.00	21,201.90	11,950.00	70.40	131.38	-154.92	-8,734.26	524.10	518.92	354.19	164.73	3.150
20,800.00	11,480.00	21,301.90	11,950.00	71.15	132.81	-154.92	-8,834.26	524.54	518.92	352.55	166.37	3.119
20,900.00	11,480.00	21,401.90	11,950.00	71.90	134.24	-154.92	-8,934.26	524.98	518.92	350.90	168.02	3.088
21,000.00	11,480.00	21,501.90	11,950.00	72.64	135.67	-154.92	-9,034.26	525.42	518.92	349.26	169.66	3.059
21,100.00	11,480.00	21,601.90	11,950.00	73.39	137.10	-154.92	-9,134.25	525.86	518.92	347.61	171.31	3.029
21,200.00	11,480.00	21,701.90	11,950.00	74.14	138.53	-154.92	-9,234.25	526.30	518.93	345.97	172.96	3.000
21,300.00	11,480.00	21,801.90	11,950.00	74.88	139.96	-154.92	-9,334.25	526.75	518.93	344.32	174.61	2.972
21,400.00	11,480.00	21,901.90	11,950.00	75.63	141.39	-154.92	-9,434.25	527.19	518.93	342.67	176.26	2.944
21,500.00	11,480.00	22,001.90	11,950.00	76.38	142.82	-154.92	-9,534.25	527.63	518.93	341.02	177.91	2.917
21,600.00	11,480.00	22,101.90	11,950.00	77.13	144.25	-154.92	-9,634.25	528.07	518.93	339.36	179.57	2.890
21,700.00	11,480.00	22,201.90	11,950.00	77.88	145.69	-154.92	-9,734.25	528.51	518.93	337.71	181.22	2.864
21,800.00	11,480.00	22,301.90	11,950.00	78.63	147.12	-154.92	-9,834.25	528.95	518.93	336.06	182.88	2.838
21,900.00	11,480.00	22,401.90	11,950.00	79.38	148.55	-154.92	-9,934.25	529.40	518.94	334.40	184.54	2.812
22,000.00	11,480.00	22,501.90	11,950.00	80.13	149.98	-154.92	-10,034.25	529.84	518.94	332.74	186.19	2.787
22,100.00	11,480.00	22,601.90	11,950.00	80.89	151.42	-154.92	-10,134.24	530.28	518.94	331.08	187.85	2.762
22,200.00	11,480.00	22,701.90	11,950.00	81.64	152.85	-154.92	-10,234.24	530.72	518.94	329.42	189.51	2.738
22,300.00	11,480.00	22,801.90	11,950.00	82.39	154.29	-154.92	-10,334.24	531.16	518.94	327.76	191.18	2.714
22,301.46	11,480.00	22,803.37	11,950.00	82.40	154.31	-154.92	-10,335.71	531.17	518.94	327.74	191.20	2.714
22,318.54	11,480.00	22,820.31	11,950.00	82.53	154.55	-154.92	-10,352.65	531.24	518.94	327.47	191.48	2.710

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB 25' + GL 3708.57 @ 3733.57usft

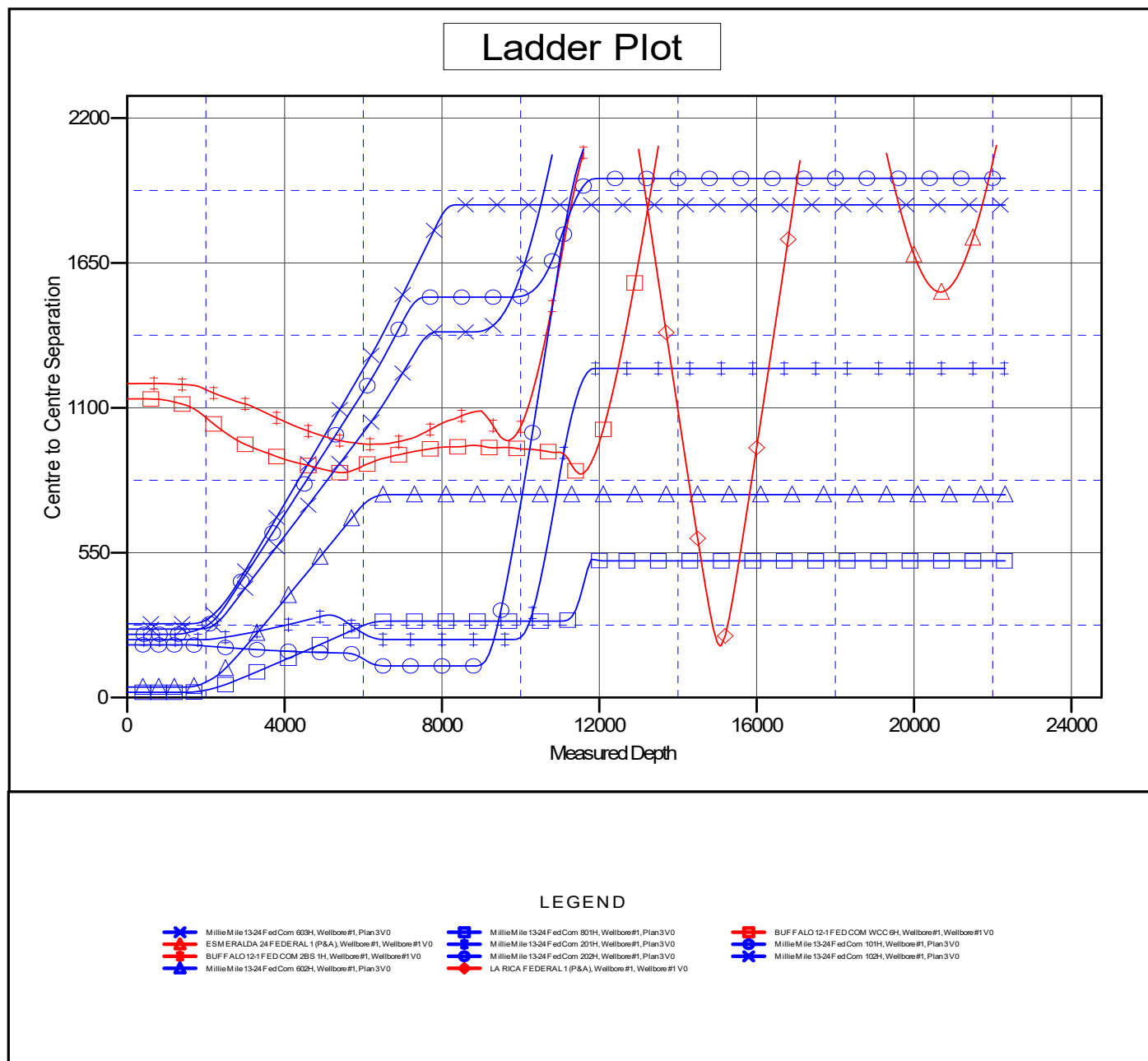
Offset Depths are relative to Offset Datum

Central Meridian is -104.3333334

Coordinates are relative to: Millie Mile 13-24 Fed Com 601H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.38°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 601H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Reference Site:	Millie Mile Pad	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Millie Mile 13-24 Fed Com 601H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.50 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	1 - EDM Production
Reference Design:	Plan 3	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB 25' + GL 3708.57 @ 3733.57usft

Offset Depths are relative to Offset Datum

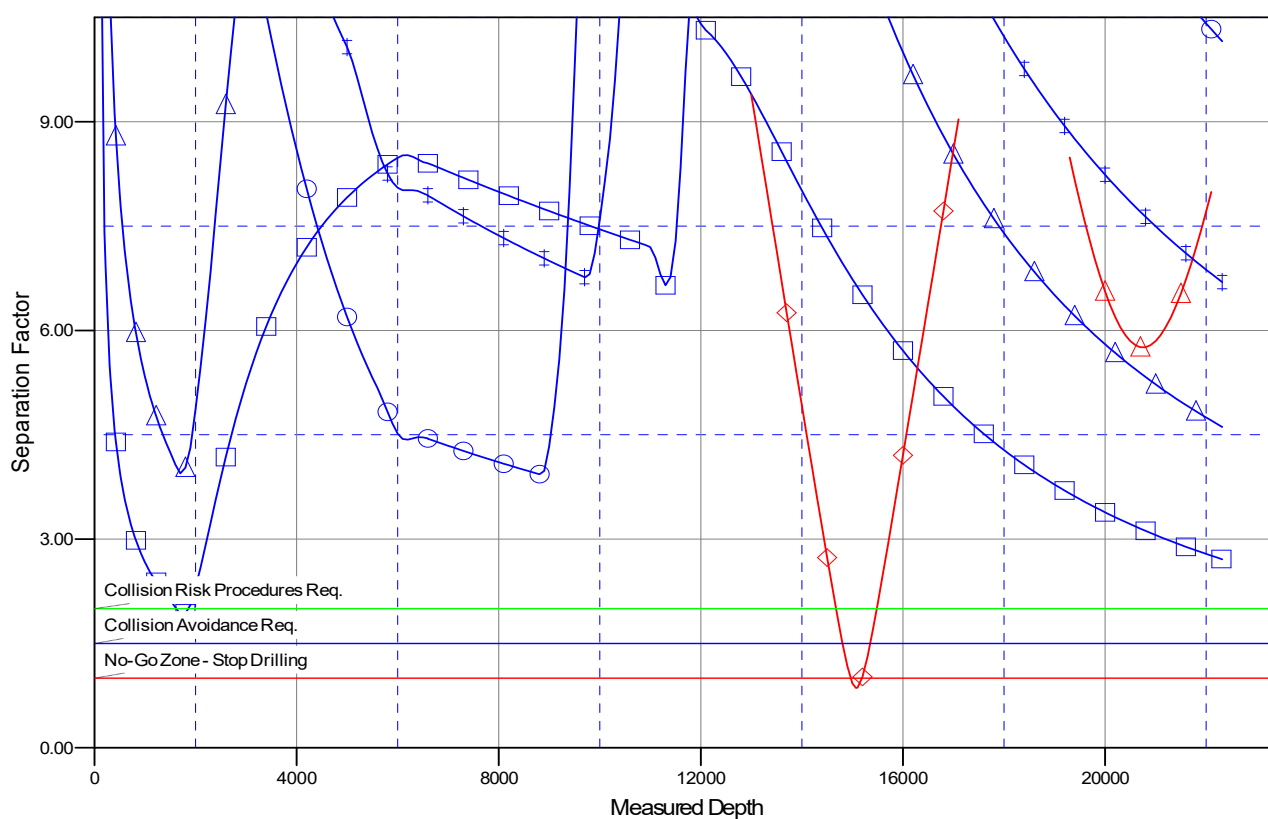
Central Meridian is -104.33333334

Coordinates are relative to: Millie Mile 13-24 Fed Com 601H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.38°

Separation Factor Plot



LEGEND

- Millie Mile 13-24 Fed Com 603H, Wellbore #1, Plan 3V0
- ESMERALDA 24 FEDERAL 1 (P&A), Wellbore #1, Wellbore #1 V0
- BUFFALO 12-1 FED COM 2BS 1H, Wellbore #1, Wellbore #1 V0
- Millie Mile 13-24 Fed Com 602H, Wellbore #1, Plan 3V0
- Millie Mile 13-24 Fed Com 801H, Wellbore #1, Plan 3V0
- Millie Mile 13-24 Fed Com 201H, Wellbore #1, Plan 3V0
- Millie Mile 13-24 Fed Com 202H, Wellbore #1, Plan 3V0
- LA RICA FEDERAL 1 (P&A), Wellbore #1, Wellbore #1 V0
- BUFFALO 12-1 FED COM WCC 6H, Wellbore #1, Wellbore #1 V0
- Millie Mile 13-24 Fed Com 101H, Wellbore #1, Plan 3V0
- Millie Mile 13-24 Fed Com 102H, Wellbore #1, Plan 3V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Millie Mile 13-24 Fed Com 601H

WELL DETAILS: Millie Mile 13-24 Fed Com 601H

ELEVATION: RKB 25' + GL 3708.57 @ 3733.57usft

+N/-S
0.00

+E/-W
0.00

Northing
607084.97

Easting
759438.58

Latitude
32.66692081

Longitude
-103.62458379

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
1952.73	9.05	21.28	1950.85	33.27	12.95	2.00	21.28	-33.27	Start 4150.02 hold at 1952.73 MD
6102.75	9.05	21.28	6049.15	641.85	249.97	0.00	0.00	-641.85	Start Drop -2.00
6555.48	0.00	0.00	6500.00	675.12	262.92	2.00	180.00	-675.12	Start 4407.04 hold at 6555.48 MD
10962.52	0.00	0.00	10907.04	675.12	262.92	0.00	0.00	-675.12	Start DLS 10.00 TFO 179.75
11862.52	90.00	179.75	11480.00	102.17	265.43	10.00	179.75	-102.17	Start 10456.02 hold at 11862.52 MD
22318.54	90.00	179.75	11480.00	-10353.75	311.25	0.00	0.00	10353.75	TD at 22318.54

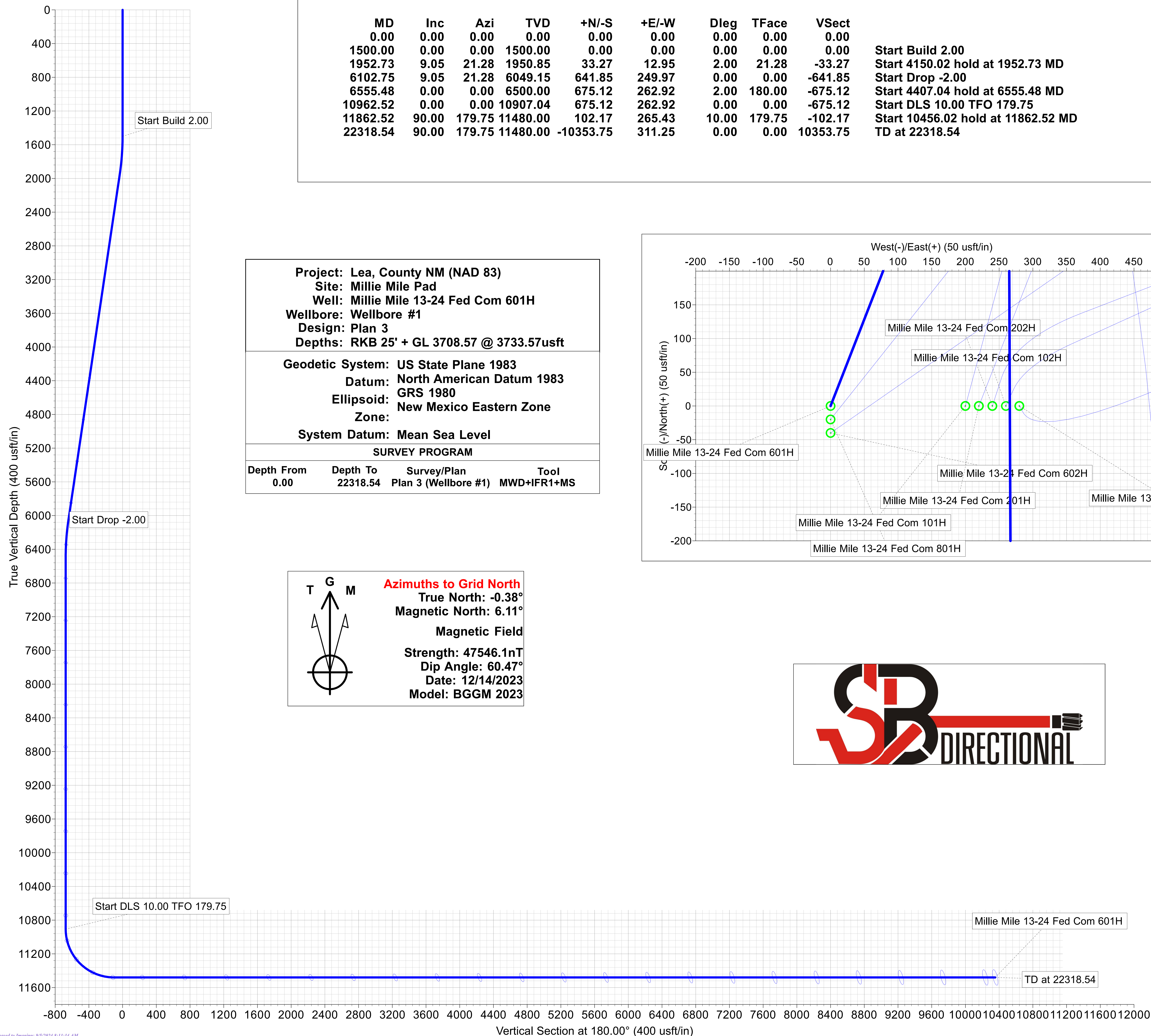
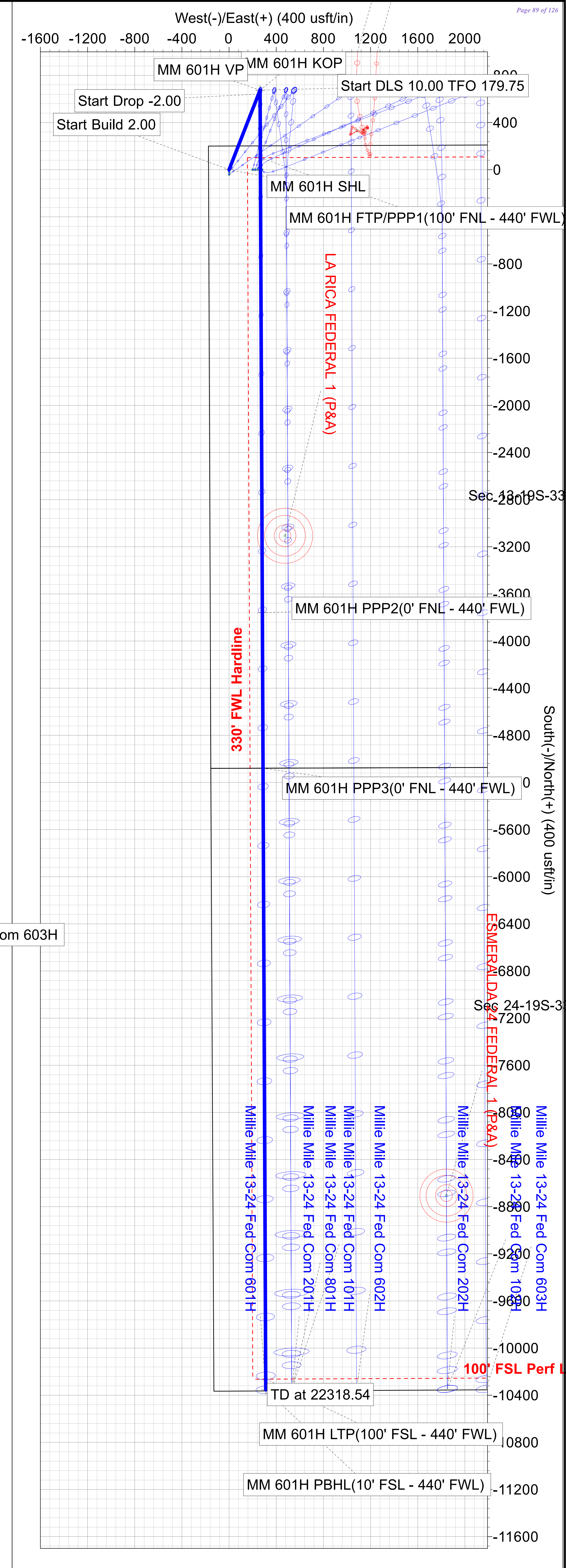
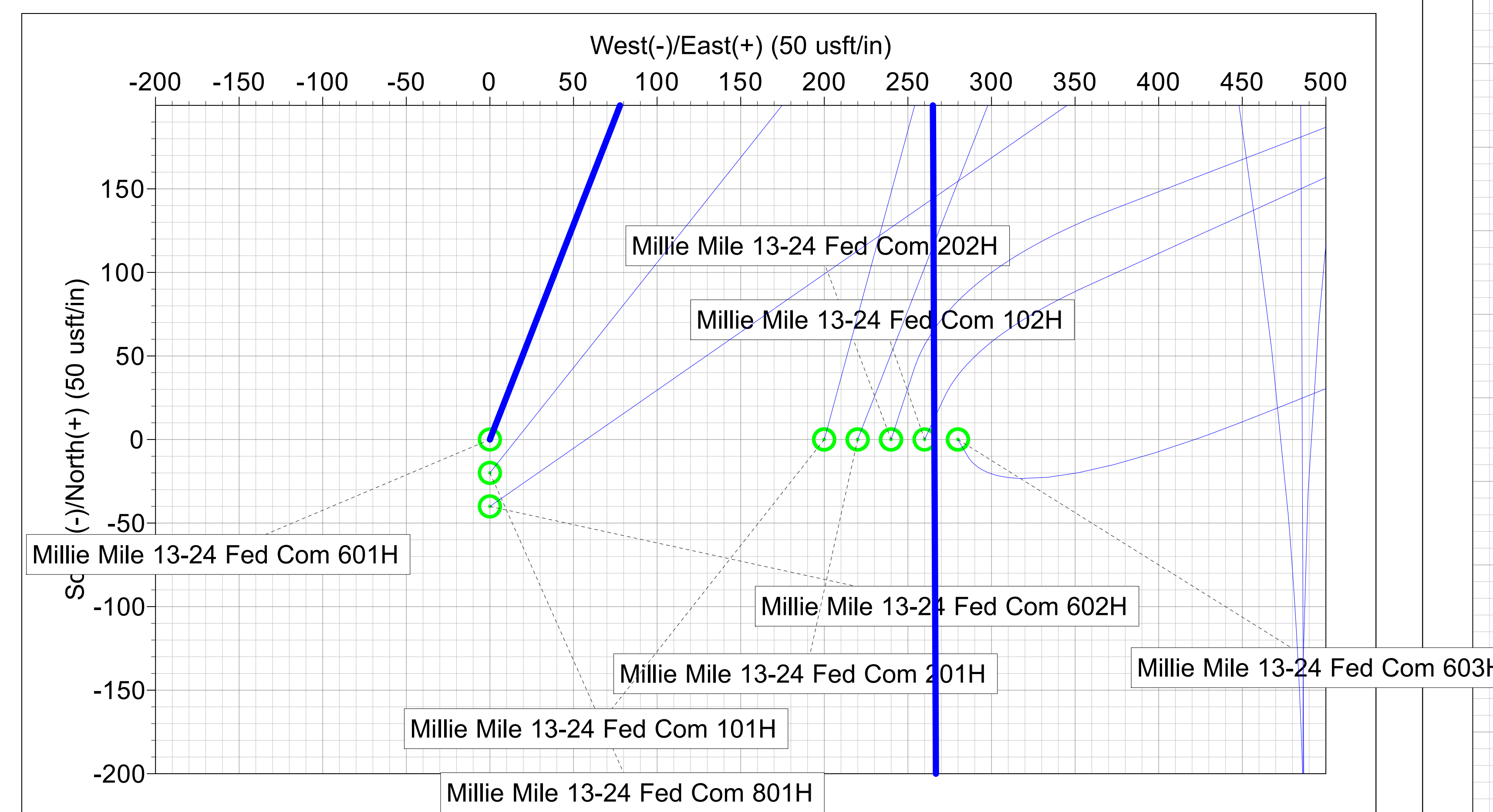
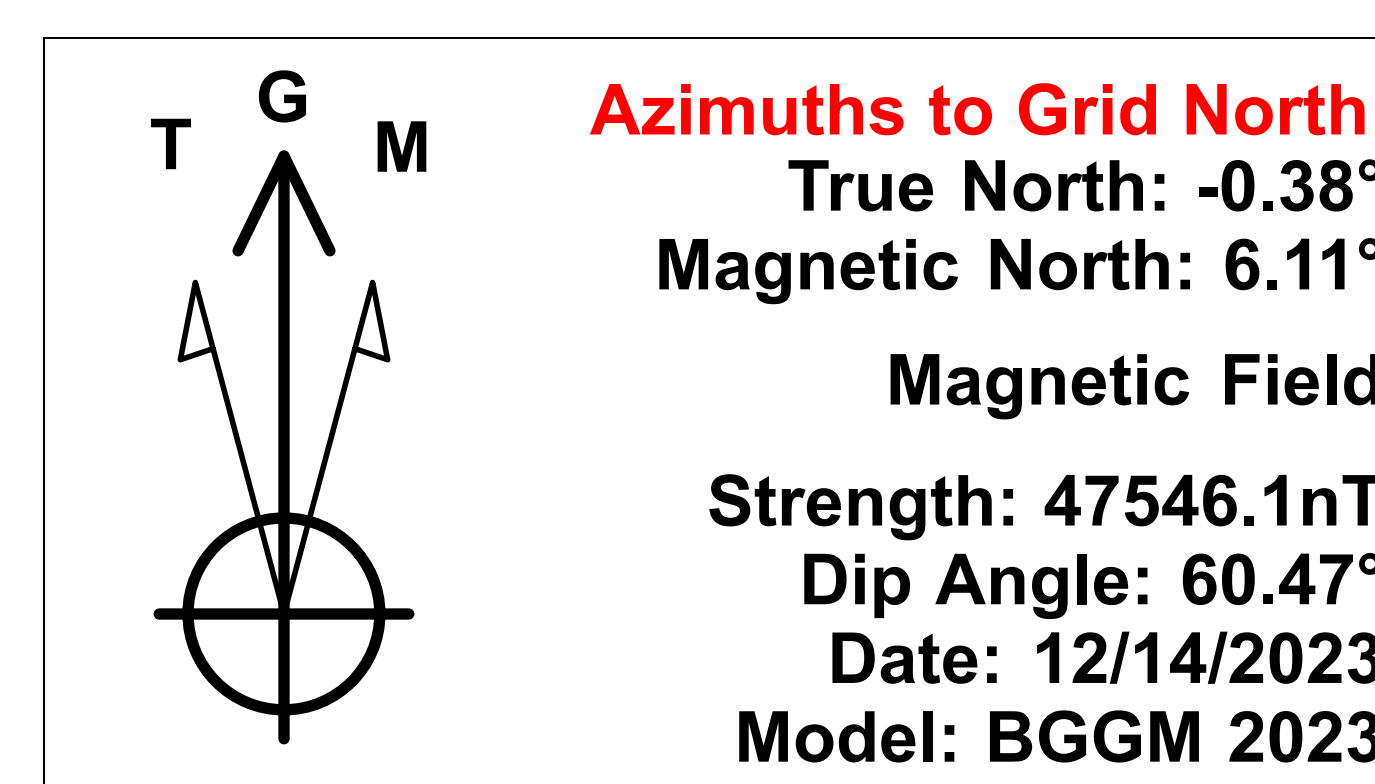
Project: Lea, County NM (NAD 83)
Site: Millie Mile Pad
Well: Millie Mile 13-24 Fed Com 601H
Wellbore: Wellbore #1
Design: Plan 3
Depths: RKB 25' + GL 3708.57 @ 3733.57usft

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	22318.54	Plan 3 (Wellbore #1)	MWD+IFR1+MS





LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTTY/QR-5.7.1-19B

No: LT2023-052-006

Customer Name	Austin Hose		
Product Name	Choke And Kill Hose		
Product Specification	3"×10000psi×35ft (10.67m)	Quantity	8PCS
Serial Number	7660103~7660110	FSL	FSL3
Temperature Range	-29℃~+121℃	Standard	API Spec 16C 3 rd edition
Inspection Department	Q.C. Department	Inspection date	2023.04.22

Inspection Items		Inspection results			
Appearance Checking		In accordance with API Spec 16C 3 rd edition			
Size and Lengths		In accordance with API Spec 16C 3 rd edition			
Dimensions and Tolerances		In accordance with API Spec 16C 3 rd edition			
End Connections: 4-1/16"×10000psi Integral flange for sour gas service		In accordance with API Spec 6A 21 st edition			
Hydrostatic Testing		In accordance with API Spec 16C 3 rd edition			
product Marking		In accordance with API Spec 16C 3 rd edition			
Inspection conclusion		The inspected items meet standard requirements of API Spec 16C 3 rd edition			
Remarks					
Approver	Jiaolong Chen	Auditor	Huiling Dong	Inspector	Zhansheng Wang



LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESING REPORT

LTTY/QR-5.7.1-28

No: 230422006

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 rd edition
Product Specification	3″×10000psi×35ft (10.67m)	Serial Number	7660103
Inspection Equipment	MTU-BS-1600-3200-E	Test medium	Water
Inspection Department	Q.C. Department	Inspection Date	2023.04.20
Rate of length change			
Standard requirements	At working pressure ,the rate of length change should not more than ±2%		
Testing result	10000psi (69.0MPa) ,Rate of length change 0.8%		
Hydrostatic testing			
Standard requirements	At 1.5 times working pressure, the initial pressure-holding period of not less than three minutes, the second pressure-holding period of not less than one hour, no leaks.		
Testing result	15000psi (103.5MPa), 3 min for the first time, 60 min for the second time, no leakage		
Graph of pressure testing:			
Conclusion	The inspected items meet standard requirements of API Spec 16C 3 rd edition		
Approver	Jiaolong Chen	Auditor	Huiling Dong
Inspector	Zhansheng Wang		

**LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD****CERTIFICATE OF CONFORMANCE****No:LT230422014**

Product Name: Choke And Kill Hose

Product Specification: 3"×10000psi×35ft(10.67m)

Serial Number: 7660103~7660110

End Connections: 4-1/16"×10000psi Integral flange for sour gas service

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in April 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3rd edition on April 22, 2023. The overall condition is good. This is to certify that the high pressure steel wire drilling hose assembly complies with all current standards and specifications for API Spec 16C 3rd edition .

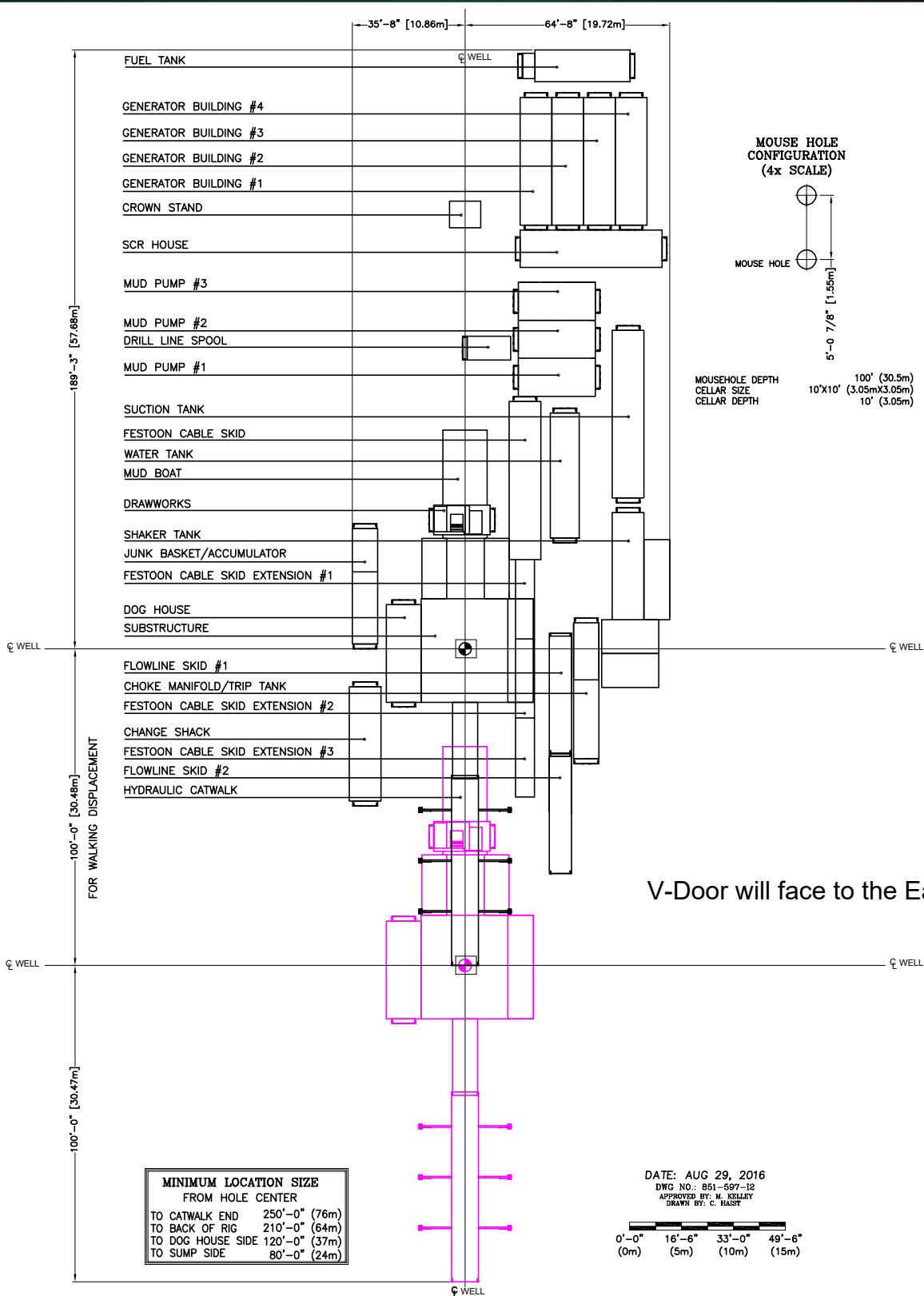
QC Manager:

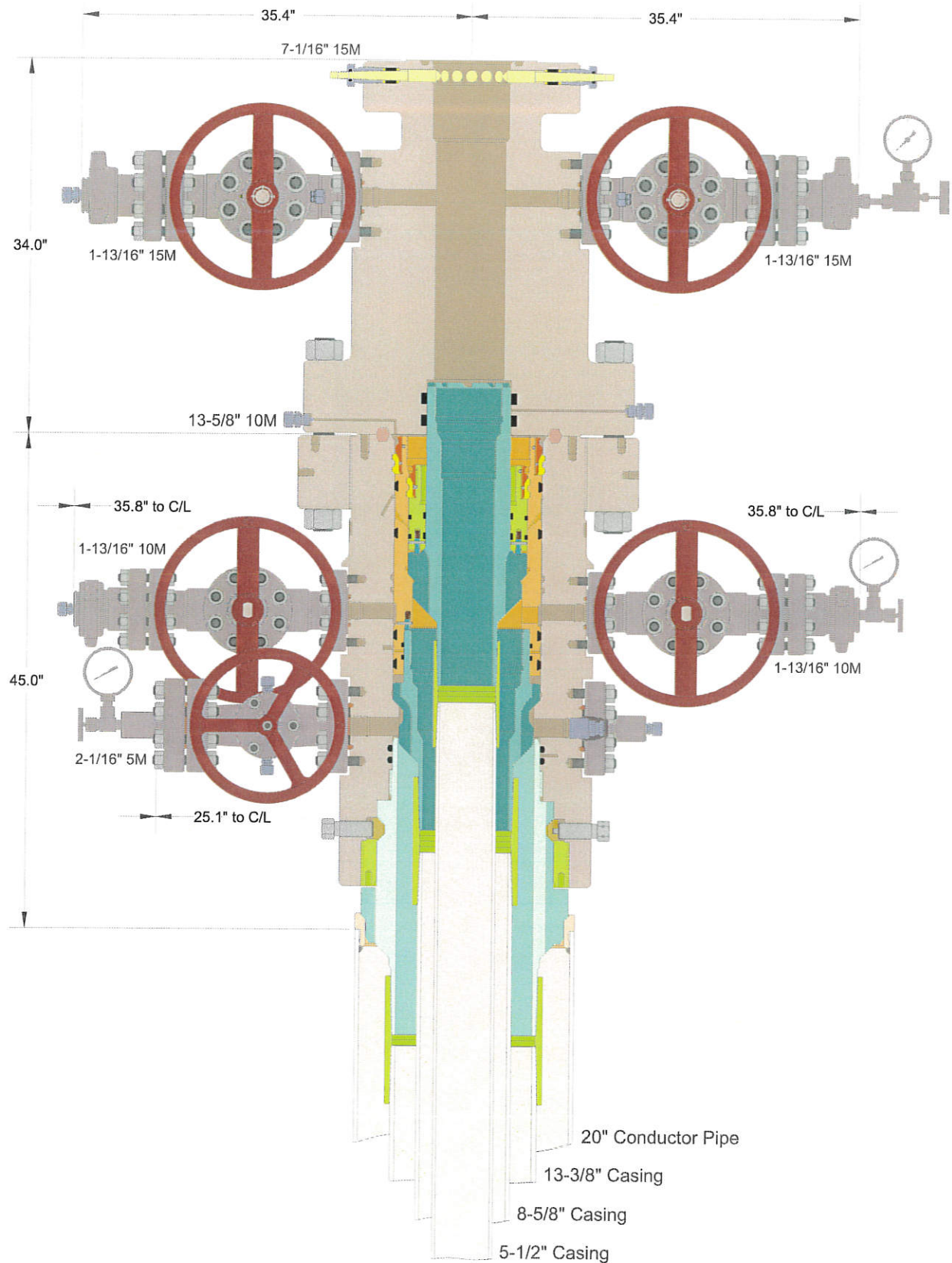
Jiaolong Chen

Date:April 22, 2023



RIG LAYOUT





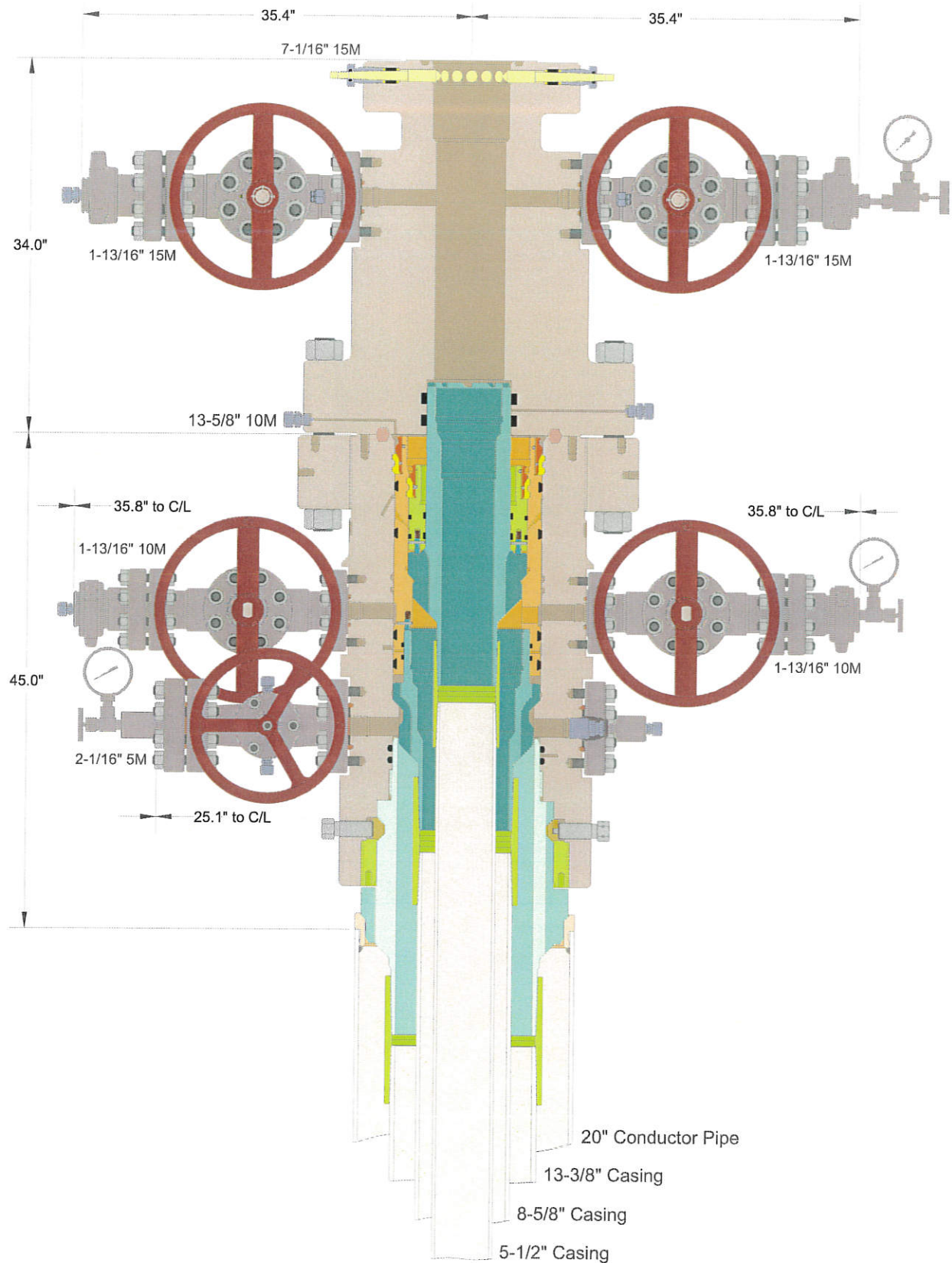
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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

20" x 13-3/8" x 8-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO Wellhead
With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head,
And 13-3/8", 8-5/8" & 5-1/2" Pin Bottom Mandrel Hangers

DRAWN	DLE	11AUG20
APPRV		
DRAWING NO.	SDT-2810	



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ALL DIMENSIONS APPROXIMATE

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With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head,
And 13-3/8", 8-5/8" & 5-1/2" Pin Bottom Mandrel Hangers

DRAWN	DLE	11AUG20
APPRV		
DRAWING NO.	SDT-2810	

E.G.L. Resources, Inc.
Millie Mile 13-24 Fed Com 601H
 SHL: 204 FNL & 175 FWL' of Section 13-19S-33E
 BHL: 10 FSL & 440 FWL Section 24-19S-33E
Lea County, New Mexico



Drilling Program

1. ESTIMATED TOPS

Formation Name	TVD KB	MD'	Bearing
Rustler	1,565	1,565	Water
Salt	1,870	1,870	N/A
Tansil	N/A		Not Present
Base of Salt	3,115	3,115	N/A
Yates	3,285	3,305	N/A
Seven Rivers	3,710	3,730	N/A
Queen	4,280	4,300	N/A
Grayburg	4,570	4,570	N/A
San Andres	5,100	5,120	N/A
Capitan Reef	N/A		Not Present
Cherry Canyon	5,670	5,670	N/A
Brushy Canyon	6,360	6,360	N/A
Bone Spring Lime	7,860	7,880	N/A
Bone Spring Avalon	7,960	7,960	Hydrocarbons
Bone Spring 1 Sand	9,080	9,130	Hydrocarbons
Bone Spring 2 Carbonate	9,390	9,440	Hydrocarbons
Bone Spring 2 Sand	9,600	9,650	Hydrocarbons
Bone Spring 3 Carbonate	10,155	10,215	Hydrocarbons
Bone Spring 3 Sand	10,500	10,580	Hydrocarbons
Wolfcamp XY*	10,785	10,875	Hydrocarbons
Wolfcamp A*	10,890	10,990	Hydrocarbons
Wolfcamp B	10,930	11,060	Hydrocarbons
Wolfcamp C	11,420	11,560	Hydrocarbons
Wolfcamp D	11,530	11,680	Hydrocarbons
Strawn	12,100	12,100	Not Encountered
Intermediate Casing Point	10,480	10,480	
KOP	10,580	10,700	
TD	11,280	22,319	

2. NOTABLE ZONES

The WC B is the goal.

3. PRESSURE CONTROL

A 13.625" 10M Blowout Preventer system will be installed on a multi-bowl (speed head) wellhead with a 13.625" flanged casing spool.

Top flange of casing spool will be set in a cellar below ground level. BOP system will consist of a single pipe ram on the bottom, mud cross, double pipe ram with blind rams on bottom and pipe rams on top, and annular preventer. Blowout preventer will be installed on top of the 13.375" surface casing and will remain installed to TD of the well. Wellhead, blowout preventer, and choke manifold diagram and test pressures are included.

Variance is requested to use a co-flex hose between the BOP system and choke manifold. A typical co-flex pressure test certificate is attached. An equipment specific co-flex pressure test certificate will be on site when testing the BOP.

All casing strings will be tested in accordance with 43 CFR 3172.7(b)(8).

The BOP system will be isolated and tested by an independent tester to 250 psi low and 10,000 psi high for 10 minutes, per CFR 3172 requirements. If 10M system, we will test annular to 100% of WP (5,000 psi)

The Surface Casing will be pressure tested to 250 psi low and 1500 psi high. Intermediate Casing will be pressure tested to 250 psi low and (.22 psi x Length Of Casing, which is equivalent to 2305.6 psi) high for 30 minutes

E.G.L. Resources, Inc.
Millie Mile 13-24 Fed Com 601H
 SHL: 204 FNL & 175 FWL of Section 13-19S-33E
 BHL: 10 FSL & 440 FWL Section 24-19S-33E
Lea County, New Mexico



4. CASING & CEMENT

Variance is requested for an option to use a surface rig to drill the surface hole, set the surface casing, and cement the surface casing. If the schedule between rias would preclude presetting the surface casing, then the primary ria will MIRU and drill all of the well.

All casing will be API and new. See attached casing assumption worksheet.

Casing Details

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	BTM MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	1,835	0	1835	J-55	54.5	BTC	1.125	1.125	1.6
Intermediate	9 7/8	8 5/8	API	No	0	10,630	0	10,480	P-110 HP	32	Talon HTQ	1.125	1.125	1.6
Production	7 7/8	5 1/2	API	No	0	22,319	0	11,280	P-110 EC	20	CDC HTQ	1.125	1.125	1.6

Alternate grades and/or higher weights could be substituted to meet maximum stimulation pressures or due to coupling availability.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	BTM MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Intermediate	9 7/8	8 5/8	API	No	0	10,630	0	10480	P-110 HP	32	TLW	1.125	1.125	1.6
Production	7 7/8	5 1/2	API	No	0	22,319	0	11280	P-110 EC	17	DWC/C-IS +	1.125	1.125	1.6

Cement Details

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	751	2.22	1667.3	12.5	100%	C	Gel, Accelerator, LCM
	Tail	1200	479	1.84	882.3	13.2	100%	C	Gel, Accelerator, LCM
Intermediate	Lead	0	384	6.19	2374.5	10	60%	C or H	Fluid Loss, Retarder, LCM, Possibly beads
	Tail	9480	130	1.38	179.4	13.8	15%	C or H	Fluid Loss, Retarder, LCM
Production	Lead	7480	353	1.49	526.3	12.5	0%	H	Fluid Loss, Retarder, LCM
	Tail	10480	1652	1.49	2461.6	13.5	20%	H	Fluid Loss, Retarder, LCM

5. MUD PROGRAM

An electronic PVT mud system will monitor flow rate, pump pressure, stroke rate, and volume. All necessary mud products (barite, bentonite, LCM) to control weight and fluid loss will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1,835'	Water Based Spud Mud	8.30	30-60	NC
Intermediate	1835	10480	Brine Diesel Emulsion	8.8-9.6	35-45	NC
Production	10480	22319	Oil Based Mud	12-12.5	35-65	4-6

6. CORES, TEST, & LOGS

No core or drill stem test is planned. A 2-person mud logging program will be used from ≈3000' to TD. GR log will be acquired by MWD tools from the intermediate casing to TD.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum anticipated surface pressure is ≈4850.4 psi. Anticipated bottom hole pressure is ≈7332 psi. Expected bottom hole temperature is ≈240° F.

8. OTHER INFORMATION

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

On the same pad, we will drill the shallower wells/target zones first to confirm the loss potential of the exposes vertical zones. If losses occur, we will use a contingency 4S design that covers said loss zone.

Drilling Practices for Well Control

1. **BOP Drills:** Conduct planned and unplanned BOP drills with each tour during drilling and tripping operations at least 1 time per week.
2. **BOP Tests:** Function test BOP's once out of hole during trips, but no more than once per 24-hour period. Function test remote BOP controls to verify functioning properly. Check regulatory reqs.
3. **Trips:** During trips verify wellbore is taking proper fill or displacing calculated volumes. In the event a string must be pulled wet confirm fill calculations with engineer prior to TOH. Once BHA has cleared the floor close blind rams. Prior to opening blind rams confirm there is no pressure, if pressure is observed, note any pressure and discuss with office prior to bleeding off. Bleed pressure off through choke prior to opening blind rams. During trips it is vital that fluids are not transferred in and out of the active system to minimize confusion. Always utilize the trip tank and PVT for the trip tank, so that it can be monitored on the EDR. Also, during trips, it is vital to stop and check for flow multiple times throughout the trip.
4. **Trip Sheets:** Verify crews understand the importance of a trip sheet. Trip sheets must be utilized on every trip to monitor for proper fill and displacement every 5-10 stands. If incorrect fill or displacement is observed, stop trip and discuss with engineer.
5. **Slow Pump Rates:** Slow pump rates must be recorded every 24 hours or 500' of new hole drilled during drilling operations. It is also good practice to record SPR with any mud weight change greater than 0.5 ppg and every tour if applicable. Note SPR on daily drilling reports as they are taken.
6. **Pressure Control Equipment:** Once BOPE has been nipped up and tested, prior to drilling ahead, pump through equipment (Kill Line, HCR/Choke(s), gas buster) to verify working properly. Also pump through and verify that all equipment is functioning properly after every casing string that is run and cemented. Under no circumstance shall drilling ahead in the production interval be permitted prior to verifying pressure control equipment is functioning properly. Document and always know BOP configuration, size and rating. Always keep HCR closed and chokes closed during drilling or tripping operations. HCR only to be opened while monitoring pressure. Always confirm that Full Opening Safety Valves are the correct thread, functioned each tour and in the open position.
7. **Well Control:** Always assume influxes are hydrocarbon and real. In the event a shut-in is required, plan to follow the "Hard Shut-In" procedure. **If Shut-In Casing Pressure increases higher than 3,500 psi, we will move to the pipe rams that are more adequately rated for those pressures.** Keep kill sheets filled out properly and daily. ALWAYS make sure that PVT alarms are working properly and set to sound at 5 bbls. In "hard shut-in" situation, always PU to space out tool joints properly in BOP. Refer to Appendix A for "Hard Shut-in" procedure.
8. **Accumulator:** Verify pressures on accumulator once every 24 hours. Document and confirm pressures are consistent, report any discrepancies. Verify that the accumulator recharge pumps are working properly and discuss bleeding off system on a weekly basis to confirm pumps are operating properly.
9. **Wellhead:** If wellhead has lock down pins, verify all gland packing nuts are tight.
10. **BOP Tests, inspections and recordkeeping:** Maintain BOP test pressure records and charts on the rig. The failure to conduct test or to record test results could cause the BOP to function improperly in the event of a kick, resulting in a blowout. Test Record Checklist below.
 - Wellhead Pressure Rating.
 - Date of last test.
 - Low pressure and the high pressure for the annular, pipe rams, blind rams, kill line, choke line, standpipe system and safety valves.
 - Annular preventer should be tested to 70% of rated capacity. The rest of the BOP system should be tested at the rated capacity of the weakest component.
 - BOP equipment should be inspected daily, and a preventer actuation test should be performed on each round trip, but not more than once per 24-hour period.
 - The BOP should be shopped every five years for an OEM inspection.

Rig Management Protocol

- The day Supervisor (Company Man/Foreman) is the lead supervisor on location and is ultimately responsible for the operation.
- If a night foreman is on location it is his duty to wake the lead foremen when problems or irregular situations arise.

Appendix A

HARD SHUT-IN PROCEDURE - WHILE TRIPPING

- A. After kick is indicated, position the upper tool joint above the rotary table/rig floor.
- B. Install Full Opening Safety Valve in drill string (torque to proper specs) and place in closed position.
- C. Perform hard shut-in by closing annular preventer and opening HCR.
- D. Notify Supervisor if not present.
- E. Make up top drive or kelly to the closed FOSV.
- F. Open FOSV and record the SIDPP, SICP, pit gain, Depth/TVD and time.
- G. Prepare to implement kill procedures.



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

SUPO Data Report

08/15/2024

APD ID: 10400097398

Submission Date: 03/07/2024

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Well Type: OIL WELL

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:

PBEX_Millie_Mile_13_24_Fed_Com_Aerial_Map_20240514070438.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Aerial_Road_Route_Map_20240514070442.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Land_Status_Map_20240514070446.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Topo_Map_20240514070451.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Vicinity_Map_20240514070456.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

23_101303_Millie_Mile_13_24_Fed_Com_AR_20240514070530.pdf

New road type: LOCAL

Length: 523.23

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 14

New road access erosion control: The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H

turnouts installed as necessary to provide for proper drainage along with access road route.

New road access plan or profile prepared? N**New road access plan****Access road engineering design?** N**Access road engineering design****Turnout?** N**Access surfacing type:** OTHER**Access topsoil source:** ONSITE**Access surfacing type description:** Caliche**Access onsite topsoil source depth:** 6**Offsite topsoil source description:****Onsite topsoil removal process:** Topsoil will be spread along location to help raise sub grade**Access other construction information:** Caliche will be from Kenneth Smith's property of which we will have an SUA prior to disturbance. The material meets BLM requirements and standards.**Access miscellaneous information:****Number of access turnouts:****Access turnout map:**

Drainage Control

New road drainage crossing: LOW WATER,OTHER**Drainage Control comments:** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.**Road Drainage Control Structures (DCS) description:** None**Road Drainage Control Structures (DCS) attachment:**

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES**Attach Well map:**

PBEX_Millie_Mile_13_24_Fed_Com_601H_Existing_Wells_Map_20240514071136.pdf

PBEX_Millie_Mile_13_24_Fed_Com_601H_Existing_Wells_Map_Pg2_20240514071143.pdf

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COMWell Number: 601H

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: One pad was staked with the BLM for construction and use as Central Tank Batteries (CTBs). The facility is the Millie Mile 13-24 Fed Com Central Tank Battery. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type:

DUST CONTROL
SURFACE CASING
INTERMEDIATE/PRODUCTION CASING

Source latitude: 32.623993

Source longitude: -103.622398

Source datum: NAD83

Water source permit type:

PRIVATE CONTRACT
WATER WELL

Water source transport method:

TRUCKING
PIPELINE

Source land ownership: FEDERAL

Source transportation land ownership: FEDERAL

Water source volume (barrels): 100000

Source volume (acre-feet): 12.88930963

Source volume (gal): 4200000

Water source and transportation

PBEX_Millie_Mile13_24_Fed_Com_Water_Source_Map_20240514071257.pdf

Water source comments: The oil/gas production wells will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from Ranger Water Resources and hauled to the location by transport truck or lay-flat lines using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location.

New water well? N

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H

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 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

Using any construction materials: YES**Construction Materials description:** Any construction material that may be required for surfacing the drill pad and access road will be from Kenneth Smith's caliche pit, all materials are BLM approved.**Construction Materials source location**

PBEX_Millie_Mile_13_24_Fed_Com_Caliche_Source_Map_20240514071346.pdf

Section 7 - Methods for Handling

Waste type: DRILLING**Waste content description:** Drill cuttings, drilling fluids, produced oil/water, other chemicals.**Amount of waste:** 50 barrels**Waste disposal frequency :** Daily**Safe containment description:** Will be stored in steel pits until they are hauled to a state-approved disposal facility.**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL FACILITY**Disposal location ownership:** COMMERCIAL**Disposal type description:****Disposal location description:** Will be hauled to a state-approved disposal facility.

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COMWell Number: 601H

Waste type: SEWAGE

Waste content description: Black and Grey Water

Amount of waste: 2 barrels

Waste disposal frequency : Daily

Safe containment description: Will be contained in plastic chemical toilets and disposed of properly at a state approved disposal site.

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Will be disposed of properly at a state approved disposal site.

Waste type: GARBAGE

Waste content description: Trash

Amount of waste: 10 barrels

Waste disposal frequency : Daily

Safe containment description: Portable Trash Cage

Safe containmant attachment:

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

Disposal type description:

Disposal location description: All trash will be disposed of properly at a state approved disposal facility.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

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? N

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COMWell Number: 601H

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

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Section 9 - Well Site

Well Site Layout Diagram:

23_101303_Millie_Mile_13_24_Fed_Com_SS_20240514071430.pdf23_101303_Millie_Mile_13_24_Fed_Com_Site_Plan_20240514071436.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface DisturbanceMultiple Well Pad Name: Millie Mile 13-24 Fed ComMultiple Well Pad Number: 1

Recontouring

Drainage/Erosion control construction: The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

Drainage/Erosion control reclamation: No reclamation needed.

Well pad proposed disturbance (acres): 7.27

Well pad interim reclamation (acres): 0

Well pad long term disturbance (acres): 0

Road proposed disturbance (acres): 0.36

Road interim reclamation (acres): 0

Road long term disturbance (acres): 0

Powerline proposed disturbance (acres): 0

Powerline interim reclamation (acres): 0

Powerline long term disturbance (acres): 0

Pipeline proposed disturbance (acres): 0

Pipeline interim reclamation (acres): 0

Pipeline long term disturbance (acres): 0

Other proposed disturbance (acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COMWell Number: 601H

Total proposed disturbance: 7.63

Total interim reclamation: 16.5

Total long term disturbance: 6

Disturbance Comments:

Reconstruction method: Due to the facility being on the same pad as the well locations, there will not be any reclamation needed at this site until all wells have been plugged and abandoned.

Topsoil redistribution: The original stockpiled topsoil will be placed in the low spots, mainly the wester 1/3 of the location to help raise the sub grade. It will also be used to fill slopes that are inside the location as staked.

Soil treatment: None

Existing Vegetation at the well pad: Shinnery oak, mesquite, grasses

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Shinnery oak, mesquite, grasses

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Shinnery oak, mesquite, grasses

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: Shinnery oak, mesquite, grasses

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H**Seed Type****Pounds/Acre****Seed reclamation****Operator Contact/Responsible Official****First Name:** Mikah**Last Name:** Thomas**Phone:** (432)661-7106**Email:** mikah@pbex.com**Seedbed prep:****Seed BMP:****Seed method:****Existing invasive species?** N**Existing invasive species treatment description:****Existing invasive species treatment****Weed treatment plan description:** Weed treatment will be performed on an as needed basis. If African rue is spotted, EGL Resources will enter into an agreement with the Carlsbad Soil and Water Conservation District.**Weed treatment plan****Monitoring plan description:** Once the wells have been plugged and abandoned, EGL Resources will ensure full reclamation of the pad to BLM Standards.**Monitoring plan****Success standards:** Once the wells have been plugged and abandoned, EGL Resources will ensure full reclamation of the pad to BLM Standards.**Pit closure description:** No Pits will be used, a closed-loop system will be in place.**Pit closure attachment:****Section 11 - Surface Ownership****Disturbance type:** EXISTING ACCESS ROAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT, PRIVATE OWNERSHIP**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:**

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H**Other Local Office:****USFS Region:****USFS Forest/Grassland:****USFS Ranger District:****Surface use plan certification:** NO**Surface use plan certification document:****Surface access agreement or bond:** AGREEMENT**Surface Access Agreement Need description:** SUA with Kenneth Smith will be signed and approved prior to any disturbance.**Surface Access Bond BLM or Forest Service:****BLM Surface Access Bond number:****USFS Surface access bond number:****Disturbance type:** NEW ACCESS ROAD**Describe:****Surface Owner:** BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP**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:**

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Surface use plan certification: NO

Surface use plan certification document:

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: SUA with Kenneth Smith will be signed and approved prior to any disturbance.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

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:

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 601H**Surface use plan certification:** NO**Surface use plan certification document:****Surface access agreement or bond:** AGREEMENT**Surface Access Agreement Need description:** SUA with Kenneth Smith will be signed and approved prior to any disturbance.**Surface Access Bond BLM or Forest Service:****BLM Surface Access Bond number:****USFS Surface access bond number:**

Section 12 - Other

Right of Way needed? N**Use APD as ROW?****ROW Type(s):****ROW****SUPO Additional Information:****Use a previously conducted onsite?** Y**Previous Onsite information:** Onsite review was done on April 9, 2024 with Chaz Sartin.

Other SUPO

New__Millie_Mile_SUPO_Pad_Move_20240514071839.pdf

EGL Resources, LLC → Millie Mile 13-24 Fed Com**Well Site Locations**

The results of the Millie Mile 13-24 Fed Com will develop economic quantities of oil and gas with multiple primary formations targeted. Well locations are determined based on cross-section variations and details. Locations will be selected to minimize the likelihood of encountering faults and/or drilling hazards while still targeting suitably productive zones. If drilling results in an unproductive well, the well will be plugged and abandoned as soon as practical after the conclusion of production testing. Productive wells may be shut-in temporarily for BLM authorization for production activities and facilities.

Millie Mile 13-24 Fed Com

- Millie Mile 13-24 Fed Com 603H
- Millie Mile 13-24 Fed Com 102H
- Millie Mile 13-24 Fed Com 202H
- Millie Mile 13-24 Fed Com 201H
- Millie Mile 13-24 Fed Com 101H
- Millie Mile 13-24 Fed Com 601H
- Millie Mile 13-24 Fed Com 801H
- Millie Mile 13-24 Fed Com 602H

Surface Use Plan**1. Existing Roads**

A. From the intersection of US-180 and NM-18 in Hobbs, NM, Go West on US-180 Approx 15 miles. At the intersection of US-180 and NM-529 take a left and continue to go southwest on US-180 approx. 14.9 miles. Turn right onto existing lease road and go northwest approx. 2.08 miles. Turn right onto existing lease road and go northeast approx. 2.02 miles. Turn left onto existing lease road and go north approx. 1.92 miles. Turn left onto existing lease road and access roads and go west approx. 1.46 miles to northeast pad corner.

B. Transportation Plan identifying existing roads that will be used to access the project area is included from Coosa, LLC. marked as, 'Vicinity Map, Aerial Map, Aerial Road Route Map, Land Status Map, and Topo Map'.

C. All equipment and vehicles will be confined to the routes shown on the 'Vicinity Map, Aerial Map, Aerial Road Route Map, Land Status Map, and Topo Map' as provided by Coosa, LLC.

D. Maintenance of the access roads will continue until abandonment and reclamation of the well pads has been completed.

2. New or Upgraded Access Roads

A. **New Roads.** There are a total of approximately 523.23 feet of proposed and staked access roads to access the Millie Mile 13-24 Fed Com pad shown on the 'AR Map'.

B. **Well Pads.** The Millie Mile 13-24 Fed Com Aerial Road Route Map shows the location of the proposed road that will need to be constructed to access the well pad.

C. **Anticipated Traffic.** After well completion, travel to each well site will include one lease operator truck and two oil trucks per day until the Central Tank Batteries are completed. Upon completion of the Central Tank Batteries, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Batteries only for oil hauling until connected to a pipeline. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal. Well service trips will include only the traffic necessary to work on the wells or provide chemical treatments periodically and as needed throughout the year.

D. **Routing.** All equipment and vehicles will be confined to the travel routes laid out in the 'Vicinity Map' provided by Coosa, LLC.

E. **Road Dimensions.** The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.

F. Surface Material. Surface material will be native caliche. The average grade of all roads will be approximately 3%.

G. Fence Cuts: None.

H. Fences: None.

I. Cattle Guards: None.

J. Turnouts: None.

K. Culverts: None.

L. Cuts and Fills: Not significant.

M. Topsoil. Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road and pad prior to any construction activity. The stripped topsoil will be spread along the western 1/3 of the location to help raise the sub grade and will be available to fill slopes inside the location as staked.

N. Maintenance. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

O. Drainage. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

3. Location of Existing Wells

A. See attached Existing Wells map.

4. Ancillary Facilities

A. No off-pad ancillary facilities are planned during the exploration phase including, but not limited to campsites, airstrips or staging areas.

5. Location of Proposed Production Facilities

A. Production Facilities. One pad was staked with the BLM for construction and use as Central Tank Batteries (CTBs). The facility is the Millie Mile 13-24 Fed Com Central Tank Battery. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.

B. Buried & Surface Flowlines. Plans for this have not been determined. Prior to any flowlines being constructed, a 3160-5 will be submitted for approval.

C. Midstream Tie-In. Midstream tie-in connections have not been finalized. Third party midstream company will acquire all necessary rights-of-way. If corridors are found needed in the future, they will be applied for via 3160-5.

D. Disposal Facilities. Produced water will be hauled from the location to a commercial disposal facility prior to being tied into a salt water disposal flowline.

E. Flare. Flare determination has not been finalized. Prior to construction, this will be submitted on a 3160-5.

F. Aboveground Structures. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted earth-tone colors such as 'shale green' to reduce the visual impacts of the built environment.

G. Containment Berms. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1.5 times the capacity of the largest tank and away from cut or fill areas.

H. Electrical. Electrical lines have not been finalized. Prior to any construction, a 3160-5 will be submitted for approval.

6. Location and Types of Water Supply

The oil/gas production wells will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from Ranger Water Resources and hauled to the location by transport truck or lay-flat lines using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Shown on attached 'Water Source Map.'

Anticipated water usage for drilling includes an estimated 50,000 barrels bbls of water and anticipated water usage for completion includes an estimated 1,950,000 bbls of water for each horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation.

7. Construction Activities

A. Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur because of these activities.

B. Any construction material that may be required for surfacing the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from federal lands without prior approval from the appropriate surface management agency. All roads and well pads will be constructed of 6" rolled and compacted caliche.

C. Anticipated Caliche Location will be from Kenneth Smith, attached map 'caliche source' is attached.

8. Methods for Handling Waste • Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site.

- **Drilling Fluids.** These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility.

- **Produced Fluids.** Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

- **Sewage.** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

- **Garbage and Other Waste Materials.** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

- **Debris.** Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned and removed from the well location. No potential adverse materials or substances will be left on location.

- **Hazardous Materials.** i. All drilling wastes identified as hazardous substances by the Comprehensive Environmental Response Compensation Liability Act (CERCLA) removed from the location, and not reused at another drilling location, will be disposed of at a hazardous waste facility approved by the U.S. Environmental Protection Agency (EPA).

- ii. EGL Resources, LLC. and its contractors will comply with all applicable Federal, State, and local laws and regulations, existing or hereafter enacted/promulgated, regarding any hazardous material, as defined in this paragraph, that will be used, produced, transported or stored on the oil and gas lease. "Hazardous material" means any substance, pollutant or

contaminant that is listed as hazardous under the CERCLA of 1980, as amended, 42 U.S.C. 9601 et seq., and its regulation. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the RCRA of 1976, as amended, 42 U.S.C. 6901 et seq., and its regulations. The term hazardous material also includes any nuclear or nuclear by-product material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does not include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101 (14) U.S.C. 9601 (14) nor does the term include natural gas.

- iii. No hazardous substances or waste will be stored on location after completion of the well.
- iv. Chemicals brought to location will be on the Toxic Substance Control Act (TSCA) approved inventory list.
- v. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in Notice to Lessees (NTL) 3A will be reported to the BLM Carlsbad Field Office. Major events will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days.

9. Well Site Layout

A. Rig Plat Diagrams: There is one multi-well pad for the Millie Mile 13-24 Fed Com lease anticipated. This will allow enough space for cuts and fills, and storm water control. Well site layout is attached. This is currently an 8-well pad but should have additional room if there were to be additional wells added to the plan. Maps 'Site Plan and SS' are attached.

B. Closed-Loop System: There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

C. V-Door Orientation: The pad was staked with v-door orientation to the East.

D. All equipment and vehicles will be confined to the approved disturbed areas of this APD (i.e., access road and well pad).

10. Plans for Surface Reclamation:

Due to the facility being on the same pad as the well locations, there will not be any reclamation needed at this site until all wells have been abandoned.

The original stockpiled topsoil will be placed in the low spots, mainly the western 1/3 of the location to help raise the sub grade. It will also be used to fill slopes that are inside the location as staked.

11. Surface Ownership

A. 100% of the Millie Mile 13-24 Fed Com project area is under the administrative jurisdiction of the Bureau of Land Management.

Kenneth Smith is the grazing allottee, there will be an SUA agreed upon and approved prior to any disturbance.

B. The surface is multiple use with the primary uses of the region for grazing and to produce oil and gas.

12. Other Information

Surveying

• **Well Sites.** Well pad locations have been staked. Surveys of the proposed access roads and well pad locations have been completed by Coosa, LLC, a registered professional land surveyor. Center stake surveys with access roads have been completed on Federal lands with Chaz Sartin, Bureau of Land Management Natural Resource Specialist in attendance, on April 9, 2024.

• **Cultural Resources – Archaeology:** A Class III Cultural Resources Examination has been completed on the entire pad by Resi Solutions and the results will be forwarded to the BLM Office.

• **Dwellings and Structures.** There are no dwellings or structures within 2 miles of this location.

Soils and Vegetation

• **Environmental Setting.** Soils are classified as peyote soils and dune land (0-3% slopes) and KD-Kermit palomas (0-3% slopes). Maxie Fish, CHEMM and Cassie Aguillard, Bureau of Land Management Biologist were both at the onsite and said dunes in the SE corner as so isolated and

with the mesquite taking over, the Millie Mile 13-24 Fed Com pad would not affect the DSL habitat.

- **Traffic.** No truck traffic will be operated during periods or in areas of saturated ground when surface rutting could occur. The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along the access road route.

- **Water.** There is no permanent or live water in the immediate or within the project area.

13. Bond Coverage

Bond Coverage is Nationwide. Bond Number: COB 21235

Operator's Representatives:

EGL Resources, Inc. representatives for ensuring compliance of the surface use plan are listed below:

Mikah Thomas

Regulatory Manager

EGL Resources, LLC

223 West Wall Street, Suite 900

Midland, Texas 79701

432-661-7106

Onsite: April 9, 2024, with Chaz Sartin- Bureau of Land Management NRS

Cassie Aguillard- BLM Biologist

Maxie Fish- CHEMM

Jason Hawley- Construction Foreman

Tracy- Kenneth Smith's Field Representative



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

PWD Data Report

08/15/2024

APD ID: 10400097398

Submission Date: 03/07/2024

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

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

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

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

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Lined pit Monitor description:

Lined pit Monitor

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

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

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

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

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

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

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 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



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

Bond Info Data

08/15/2024

APD ID: 10400097398

Submission Date: 03/07/2024

Highlighted data
reflects the most
recent changes

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 601H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Bond

Federal/Indian APD: FED

BLM Bond number: NM2693

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

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: PBEX Operations, LLC. **OGRID:** 332544 **Date:** 08/15/2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Millie Mile 13-24 Fed Com 101H	30-025-	D-13-19S-33E	208 FNL 375 FWL	922	3105	2104
Millie Mile 13-24 Fed Com 102H	30-025-	D-13-19S-33E	208 FNL 435 FWL	922	3105	2104
Millie Mile 13-24 Fed Com 201H	30-025-	D-13-19S-33E	208 FNL 395 FWL	1176	1733	2585
Millie Mile 13-24 Fed Com 202H	30-025-	D-13-19S-33E	208 FNL 415 FWL	1176	1733	2585
Millie Mile 13-24 Fed Com 601H	30-025-	D-13-19S-33E	204 FNL 175 FWL	1142	3348	4174
Millie Mile 13-24 Fed Com 602H	30-025-	D-13-19S-33E	244 FNL 175 FWL	1142	3348	4174
Millie Mile 13-24 Fed Com 603H	30-025-	D-13-19S-33E	208 FNL 455 FWL	1142	3348	4174
Millie Mile 13-24 Fed Com 801H	30-025-	D-13-19S-33E	224 FNL 175 FWL	740	6964	3684

IV. Central Delivery Point Name: Millie Mile 13-24 Fed Com Battery [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Millie Mile 13-24 Fed Com 101H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025
Millie Mile 13-24 Fed Com 102H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025
Millie Mile 13-24 Fed Com 201H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025
Millie Mile 13-24 Fed Com 202H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025
Millie Mile 13-24 Fed Com 601H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025
Millie Mile 13-24 Fed Com 602H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025
Millie Mile 13-24 Fed Com 603H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025
Millie Mile 13-24 Fed Com 801H	30-025-	10/1/2025	10/16/2025	11/1/2025	11/28/2025	11/28/2025

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

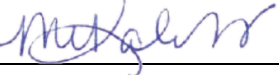
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Mikah Thomas
Title: Regulatory Manager
E-mail Address: mikah@pbex.com
Date: 8/19/2024
Phone: 432.661.7106
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

NATURAL GAS MANAGEMENT PLAN

EGL Resources, Inc

VI. Separation Equipment:

Separation equipment installed at each EGL facility is designed for maximum anticipated throughput and pressure to minimize waste. Separation equipment is designed and built according to ASME Sec VIII Div I to ensure gas is separated from liquid streams according to projected production.

VII./VIII. Operational & Best Management Practices:**1. General Requirements for Venting and Flaring of Natural Gas:**

- In all circumstances, EGL will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- EGL installs and operates vapor recovery units (VRUs) in new facilities to minimize venting and flaring. If a VRU experiences operating issues, it is quickly assessed so that action can be taken to return the VRU to operation or, if necessary, facilities are shut-in to reduce the venting or flaring of natural gas.

2. During Drilling Operations:

- Flare stacks will be located a minimum of 110 feet from the nearest surface hole location.
- If an emergency or malfunction occurs, gas will be flared or vented to avoid a risk of an immediate and substantial adverse impact on public health, safety or the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Natural gas is captured or combusted if technically feasible using best industry practices and control technologies, such as the use of separators (e.g., Sand Commanders) during normal drilling and completions operations.

3. During Completions:

- EGL typically does not complete traditional flowback, instead EGL will flow produced oil, water, and gas to a centralized tank battery and continuously recover salable quality gas. If EGL completes traditional flowback, EGL conducts reduced emission completions as required by 40 CFR 60.5375a by routing gas to a gas flow line as soon as practicable once there is enough gas to operate a separator. Venting does not occur once there is enough gas to operate a separator
- Normally, during completion, a flare is not on-site. A Snubbing Unit will have a flare on-site, and the flare volume will be estimated.
- If natural gas does not meet pipeline quality specifications, the gas is sampled twice per week until the gas meets the specifications.

4. During Production:

- An audio, visual and olfactory (AVO) inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.
- Monitor manual liquid unloading for wells on-site, takes all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time and takes reasonable actions to minimize venting to the maximum extent practicable.
- In all circumstances, EGL will flare rather than vent unless flaring is technically infeasible and venting of natural gas will avoid a risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- EGL's design for new facilities utilizes air-activated pneumatic controllers and pumps.

NATURAL GAS MANAGEMENT PLAN

EGL Resources, Inc

- If natural gas does not meet pipeline quality specifications, the gas is sampled twice per week until the gas meets the specifications.
- EGL does not produce oil or gas until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational.

5. Performance Standards

- Equipment installed at each facility is designed for maximum anticipated throughput and pressure to minimize waste. Tank pressure relief systems utilize soft seated or metal seated PSVs, as appropriate, which are both designed to not leak.
- Flare stack has been designed for proper size and combustion efficiency. The new flares will have a continuous pilot and will be located at least 100 feet from the well and storage tanks and will be securely anchored.
- New tanks will be equipped with an automatic gauging system.
- An AVO inspection will be performed daily (at minimum) for active wells and facilities to confirm that all production equipment is operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC. Inactive, temporarily abandoned, or shut-in wells and facilities will be inspected weekly. Inspection records will be kept for a minimum of five years and will be available upon request by the division.

6. Measurement or Estimation of Vented and Flared Natural Gas

- EGL estimates or measures the volume of natural gas that is vented, flared, or beneficially used during drilling operations, regardless of the reason or authorization for such venting or flaring.
- Where technically practicable, EGL will install meters on flares installed after May 25, 2021. Meters will conform to industry standards. Bypassing the meter will only occur for inspecting and servicing of the meter.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 375147

CONDITIONS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 375147
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/5/2024
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/5/2024
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/5/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	9/5/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	9/5/2024