

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. 30-025-53469
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 602H

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 Brazon 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 30-025-53469	² Pool Code 59500	³ Pool Name Tonto; Wolfcamp
⁴ Property Code 336234	⁵ Property Name MILLIE MILE 13-24 FED COM	⁶ Well Number #602H
⁷ OGRID No. 332544 102302	⁸ Operator Name ENERGY SERVICES INC 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		244'	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	1,210'	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.

¹⁶ Diagram showing well location and acreage dedication plat. The diagram includes sections 13 and 24, with well paths and corner coordinates. Key features include: SHL/KOP ELEV. 3,705', FTP/PPP1, NMNM 024489, NMNM 100347, NMNM 100861, LTP BHL, and various survey points and distances.	SURFACE HOLE LOCATION & KICK-OFF POINT 244' FNL & 175' FWL NM EAST-NAD 83 NORTH:607.042.09' EAST:759.439.53' LONG:-103.62458165 NM EAST-NAD 27 NORTH:606.978.65' EAST:718.259.74' LAT:32.6668045 LONG:-103.62408552 FIRST TAKE POINT & PENETRATION POINT 1 100' FNL & 1.210' FWL NM EAST-NAD 83 NORTH:607.190.20' EAST:760.473.99' LAT:32.66719098 LONG:-103.62121700 NM EAST-NAD 27 NORTH:607.126.74' EAST:719.294.20' LAT:32.66706844 LONG:-103.62072097 PENETRATION POINT 2 1.319' FSL & 1.210' FWL NM EAST-NAD 83 NORTH:603.328.53' EAST:760.488.80' LAT:32.65657691 LONG:-103.62125305 NM EAST-NAD 27 NORTH:603.265.19' EAST:719.308.90' LAT:32.65645405 LONG:-103.62075743 PENETRATION POINT 3 0' FNL & 1.210' FWL NM EAST-NAD 83 NORTH:602.008.50' EAST:760.493.86' LAT:32.65294870 LONG:-103.62126537 NM EAST-NAD 27 NORTH:601.945.20' EAST:719.313.92' LAT:32.65282572 LONG:-103.62072089 LAST TAKE POINT 100' FSL & 1.210' FWL NM EAST-NAD 83 NORTH:596.825.07' EAST:760.519.37' LAT:32.63870151 LONG:-103.62129539 NM EAST-NAD 27 NORTH:596.761.92' EAST:719.339.29' LAT:32.63857893 LONG:-103.62080046 BOTTOM HOLE LOCATION 10' FSL & 1.210' FWL NM EAST-NAD 83 NORTH:596.735.07' EAST:760.519.82' LAT:32.63845414 LONG:-103.62129592 NM EAST-NAD 27 NORTH:596.671.92' EAST:719.339.73' LAT:32.63833156 LONG:-103.62080099 CORNER COORDINATES NEW MEXICO EAST-NAD 83 A - 2" IRON PIPE N:607285.42' E:759263.64' B - 1/2" IRON ROD N:607295.81' E:761899.55' C - 1/2" IRON ROD N:607303.13' E:764529.73' D - 1/2" IRON ROD N:604661.08' E:764540.62' E - 1/2" IRON ROD N:602023.73' E:764553.26' F - DISTURBED 5/8" IRON ROD N:599383.40' E:764568.05' G - 5/8" IRON ROD N:596745.81' E:764581.39' H - 5/8" IRON ROD N:596732.12' E:761931.04' I - 1/2" IRON PIPE N:596719.02' E:759309.88' J - CALCULATED CORNER N:599361.78' E:759296.87' K - 1/2" IRON ROD DISTURBED N:602004.53' E:759283.87' L - BENT 1/2" IRON ROD N:604644.26' E:759273.25' M - 1/2" IRON ROD N:602013.17' E:761918.66'	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. <i>Mikah Thomas</i> 5/13/24 Signature Date Mikah Thomas Printed Name mikah@pbex.com Email Address 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 P.L.S. NO. 12177
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Intent ☒ As Drilled ☐

API #

Operator Name: EGL RESOURCES INC.	Property Name: MILLIE MILE 13-24 FED COM	Well Number #602H
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Kick Off Point (KOP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 244	From N/S NORTH	Feet 175	From E/W WEST	County LEA
Latitude 32.66680294					Longitude -103.62458165			NAD 83	

First Take Point (FTP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 100	From N/S NORTH	Feet 1,210	From E/W WEST	County LEA
Latitude 32.66719098					Longitude -103.62121700			NAD 83	

Last Take Point (LTP)

UL M	Section 24	Township 19 S	Range 33 E	Lot	Feet 100	From N/S SOUTH	Feet 1,210	From E/W WEST	County LEA
Latitude 32.63870151					Longitude -103.62129539			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 #602H
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Kick Off Point (KOP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 244	From N/S NORTH	Feet 175	From E/W WEST	County LEA
Latitude 32.66668045					Longitude -103.62408552			NAD 27	

First Take Point (FTP)

UL D	Section 13	Township 19 S	Range 33 E	Lot	Feet 100	From N/S NORTH	Feet 1,210	From E/W WEST	County LEA
Latitude 32.66706844					Longitude -103.62072097			NAD 27	

Last Take Point (LTP)

UL M	Section 24	Township 19 S	Range 33 E	Lot	Feet 100	From N/S SOUTH	Feet 1,210	From E/W WEST	County LEA
Latitude 32.63857893					Longitude -103.62080046			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: 10400097438

Submission Date: 03/07/2024

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 602H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - General

APD ID: 10400097438

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: 602H

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: 602H

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_602H_C102_Supplemental_Pages_20240513142511.pdf

23_101303_Millie_Mile_13_24_Fed_Com_602H_C102_Rev_3_20240627122205.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	244	FNL	175	FW L	19S	33E	13	Aliquot NWN W	32.6668029	- 103.6245816	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 24489	3705	0	0	Y
KOP Leg #1	244	FNL	175	FW L	19S	33E	13	Aliquot NWN W	32.6687656	- 103.6212126	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 24489	- 7202	11081	10907	Y

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 602H

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	1210	FWL	19S	33E	13	Aliquot NWN W	32.6671909	- 103.621217	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 24489	- 7775	15843	11480	Y
PPP Leg #1-2	1319	FSL	1210	FWL	19S	33E	13	Aliquot SWS W	32.6565769	- 103.621253	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100347	- 7775	15843	11480	Y
PPP Leg #1-3	0	FNL	1210	FWL	19S	33E	24	Aliquot NWN W	32.6529487	- 103.6212653	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100861	- 7775	17163	11480	Y
EXIT Leg #1	100	FSL	1210	FWL	19S	33E	24	Aliquot SWS W	32.6387015	- 103.6212953	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100861	- 7775	22346	11480	Y
BHL Leg #1	10	FSL	1210	FWL	19S	33E	24	Aliquot SWS W	32.6384541	- 103.6212959	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 100861	- 7775	22436	11480	Y



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

Drilling Plan Data Report

08/15/2024

APD ID: 10400097438

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: 602H

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
13932814	QUATERNARY	3705	0	0	ALLUVIUM	NONE	N
13932815	RUSTLER	2140	1565	1565	ANHYDRITE, LIMESTONE, SANDSTONE	NONE	N
13932816	TOP SALT	1835	1870	1870	ANHYDRITE, SALT	NONE	N
13932834	BASE OF SALT	590	3115	3115	ANHYDRITE, SALT	NONE	N
13932826	YATES	420	3285	3305	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932817	SEVEN RIVERS	-5	3710	3730	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932818	QUEEN	-575	4280	4300	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932835	GRAYBURG	-865	4570	4570	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932836	SAN ANDRES	-1395	5100	5120	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
13932820	CHERRY CANYON	-1965	5670	5670	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932821	BRUSHY CANYON	-2655	6360	6360	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932822	BONE SPRING LIME	-4155	7860	7880	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932837	BONE SPRING	-4255	7960	7960	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932823	BONE SPRING 1ST	-5375	9080	9130	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932825	BONE SPRING 2ND	-5685	9390	9440	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
13932827	BONE SPRING 2ND	-5895	9600	9650	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932828	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: 602H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13932829	BONE SPRING 3RD	-6795	10500	10580	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932838	WOLFCAMP	-7080	10785	10875	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932839	WOLFCAMP	-7185	10890	10990	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
13932831	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_20240627122340.pdf

BOP Diagram Attachment:

PBEX_10M_BOP_Diagram_20240627122348.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: 602H

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	22436	0	11280	3709	-7575	22436	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_20240307053422.pdf
- Casing_Design_Assmpt_3_string_casing_20240513143735.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_20240307053357.pdf
- Casing_Design_Assmpt_3_string_casing_20240513143725.pdf

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 602H

Casing Attachments

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

- 5.5in_P110_EC_Casing_Spec_20240307053332.pdf
- Casing_Design_Assmpt_3_string_casing_20240307053337.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	22436	1668	1.49	13.5	2485.9	20	Class H	Fluid Loss, Retarder, LCM

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 602H

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	2243 6	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:** 602H

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.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Millie_Mile_13_24_Fed_Com_602H_Plan_3_20240513144108.pdf

Millie_Mile_13_24_Fed_Com_602H_Plan_3_AC_Report_20240513144112.pdf

Millie_Mile_13_24_Fed_Com_602H_Plan_3_Plot_20240513144116.pdf

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

Choke_Kill_Line_Certs_20240513144141.pdf

Rig_597ST_I2_Rig_Layout_Pad_20240513144145.pdf

Speedhead_Specs_3string_20230407122522_20240513144148.pdf

Wellhead_3T_Design_20240513144151.pdf

Millie_Mile_602H_Drill_Plan_3S_8.625_17lb_5.5_10M_070324_v10_20240724114431.pdf

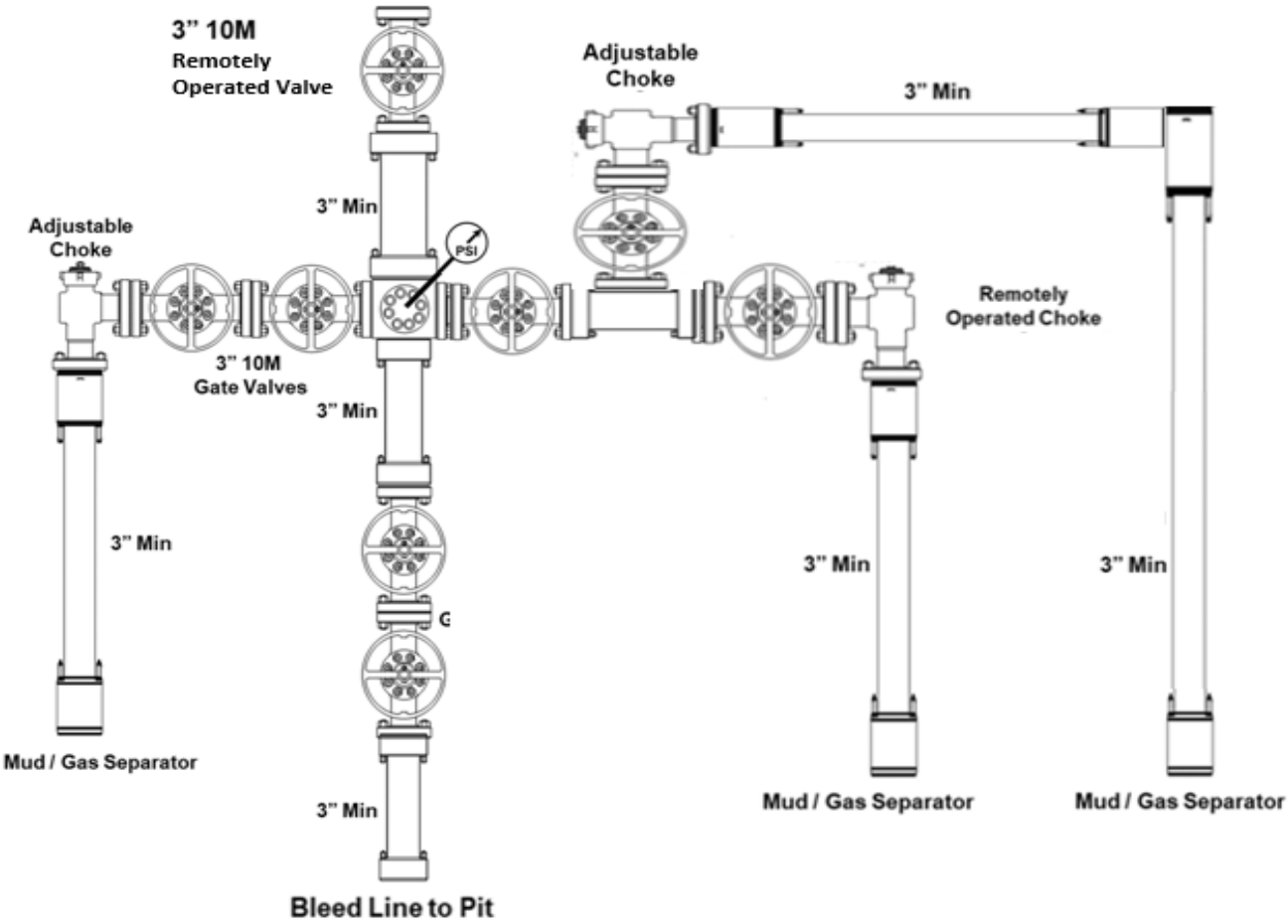
Well_Control_Plan_PBEX_v2_20240724114443.pdf

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

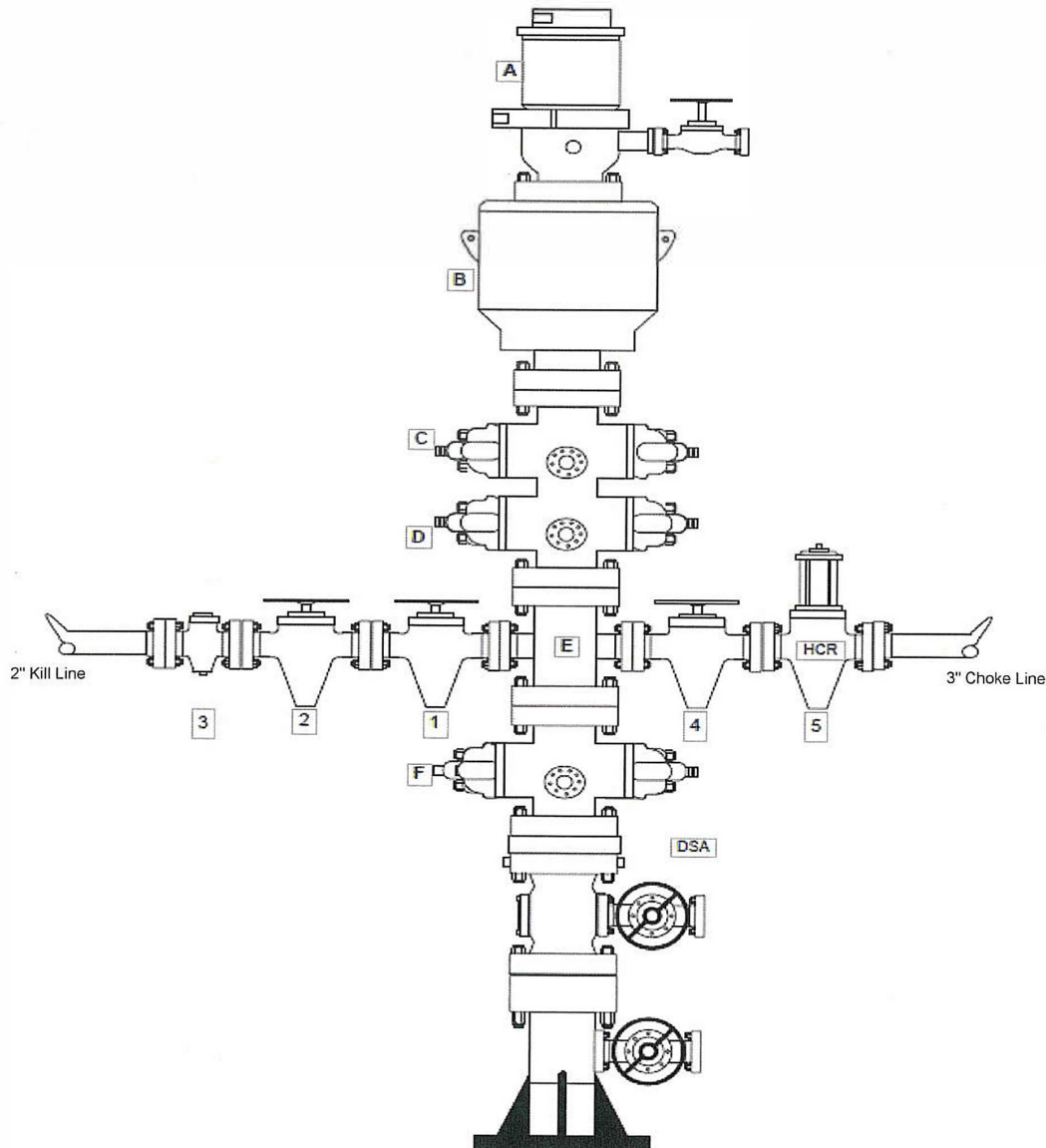
Page No.

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

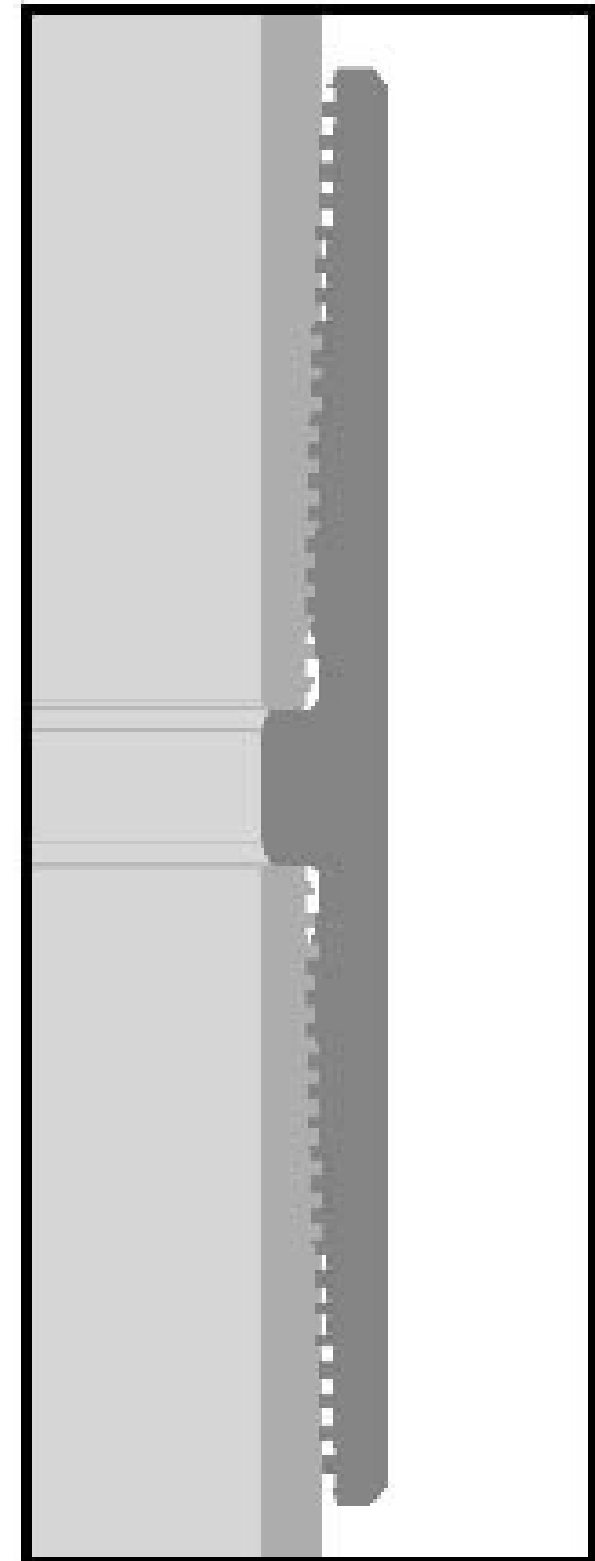
Technical Specifications

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)



VAM USA
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E-mail: VAMUSAsales@vam-usa.com



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

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

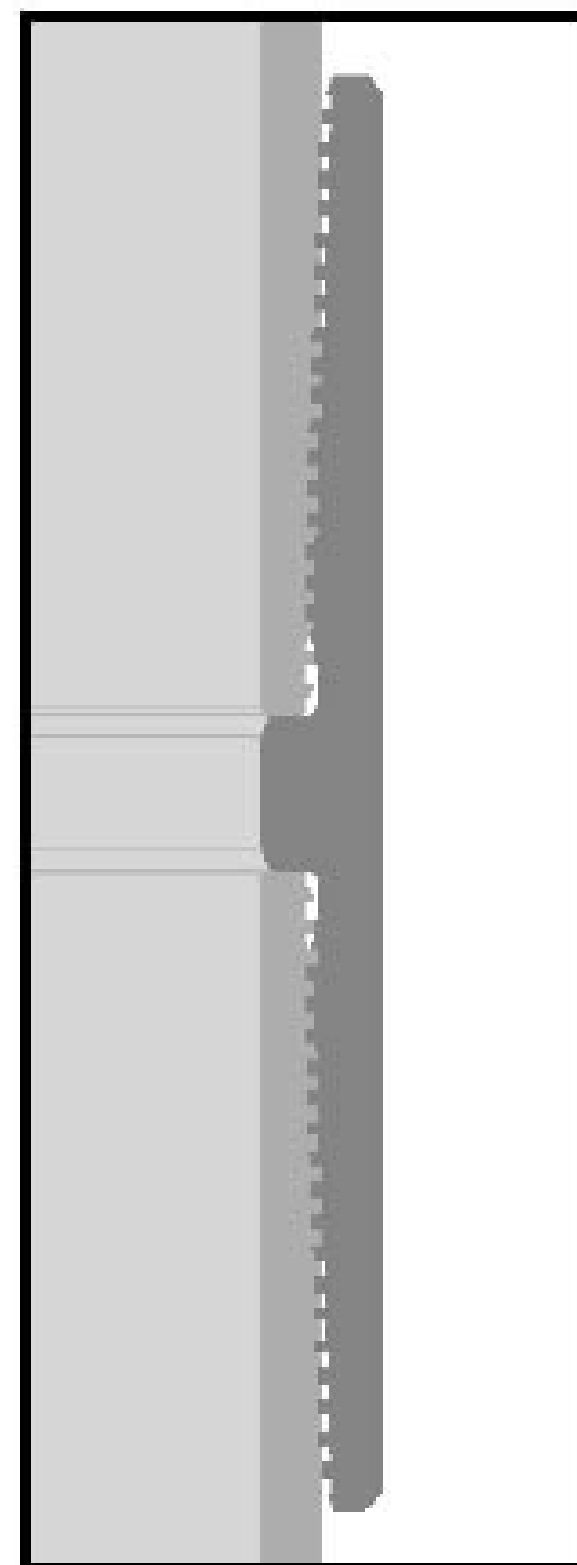
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2/6/2015



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.

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- 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	--

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Notes

Legal Notice

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

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- 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 602H

Wellbore #1

Plan: Plan 3

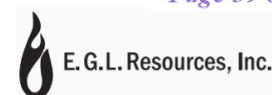
Standard Planning Report

23 April, 2024





Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
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 602H	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 602H					
Well Position	+N/-S	0.00 usft	Northing:	607,044.97 usft	Latitude:	32.66681087
	+E/-W	0.00 usft	Easting:	759,438.58 usft	Longitude:	-103.62458466
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	47,546.20000000

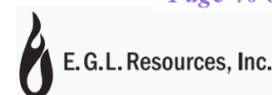
Design	Plan 3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.00

Plan Survey Tool Program	Date	4/23/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,436.41 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	
2,343.05	16.86	55.19	2,330.94	70.30	101.12	2.00	2.00	0.00	55.19	
5,831.13	16.86	55.19	5,669.06	647.84	931.80	0.00	0.00	0.00	0.00	
6,674.18	0.00	0.01	6,500.00	718.14	1,032.92	2.00	-2.00	0.00	180.00	
11,081.22	0.00	0.01	10,907.04	718.14	1,032.92	0.00	0.00	0.00	0.01	
11,981.22	90.00	179.75	11,480.00	145.19	1,035.43	10.00	10.00	19.97	179.75	
22,436.41	90.00	179.75	11,480.00	-10,309.90	1,081.24	0.00	0.00	0.00	0.00	MM 602H PBHL(10' F



Planning Report

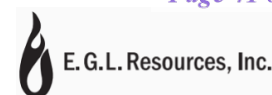


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 602H	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	55.19	1,599.98	1.00	1.43	-1.00	2.00	2.00	0.00
1,700.00	4.00	55.19	1,699.84	3.98	5.73	-3.98	2.00	2.00	0.00
1,800.00	6.00	55.19	1,799.45	8.96	12.89	-8.96	2.00	2.00	0.00
1,900.00	8.00	55.19	1,898.70	15.92	22.89	-15.92	2.00	2.00	0.00
2,000.00	10.00	55.19	1,997.47	24.84	35.73	-24.84	2.00	2.00	0.00
2,100.00	12.00	55.19	2,095.62	35.74	51.40	-35.74	2.00	2.00	0.00
2,200.00	14.00	55.19	2,193.06	48.58	69.87	-48.58	2.00	2.00	0.00
2,300.00	16.00	55.19	2,289.64	63.35	91.12	-63.35	2.00	2.00	0.00
2,343.05	16.86	55.19	2,330.94	70.30	101.12	-70.30	2.00	2.00	0.00
Start 3488.07 hold at 2343.05 MD									
2,400.00	16.86	55.19	2,385.44	79.73	114.68	-79.73	0.00	0.00	0.00
2,500.00	16.86	55.19	2,481.14	96.29	138.49	-96.29	0.00	0.00	0.00
2,600.00	16.86	55.19	2,576.84	112.85	162.31	-112.85	0.00	0.00	0.00
2,700.00	16.86	55.19	2,672.54	129.40	186.12	-129.40	0.00	0.00	0.00
2,800.00	16.86	55.19	2,768.24	145.96	209.94	-145.96	0.00	0.00	0.00
2,900.00	16.86	55.19	2,863.94	162.52	233.75	-162.52	0.00	0.00	0.00
3,000.00	16.86	55.19	2,959.64	179.08	257.57	-179.08	0.00	0.00	0.00
3,100.00	16.86	55.19	3,055.34	195.63	281.38	-195.63	0.00	0.00	0.00
3,200.00	16.86	55.19	3,151.04	212.19	305.20	-212.19	0.00	0.00	0.00
3,300.00	16.86	55.19	3,246.75	228.75	329.01	-228.75	0.00	0.00	0.00
3,400.00	16.86	55.19	3,342.45	245.31	352.83	-245.31	0.00	0.00	0.00
3,500.00	16.86	55.19	3,438.15	261.86	376.64	-261.86	0.00	0.00	0.00
3,600.00	16.86	55.19	3,533.85	278.42	400.46	-278.42	0.00	0.00	0.00
3,700.00	16.86	55.19	3,629.55	294.98	424.27	-294.98	0.00	0.00	0.00
3,800.00	16.86	55.19	3,725.25	311.54	448.09	-311.54	0.00	0.00	0.00
3,900.00	16.86	55.19	3,820.95	328.09	471.90	-328.09	0.00	0.00	0.00
4,000.00	16.86	55.19	3,916.65	344.65	495.72	-344.65	0.00	0.00	0.00
4,100.00	16.86	55.19	4,012.35	361.21	519.53	-361.21	0.00	0.00	0.00
4,200.00	16.86	55.19	4,108.06	377.76	543.35	-377.76	0.00	0.00	0.00
4,300.00	16.86	55.19	4,203.76	394.32	567.16	-394.32	0.00	0.00	0.00
4,400.00	16.86	55.19	4,299.46	410.88	590.98	-410.88	0.00	0.00	0.00
4,500.00	16.86	55.19	4,395.16	427.44	614.79	-427.44	0.00	0.00	0.00
4,600.00	16.86	55.19	4,490.86	443.99	638.61	-443.99	0.00	0.00	0.00
4,700.00	16.86	55.19	4,586.56	460.55	662.42	-460.55	0.00	0.00	0.00
4,800.00	16.86	55.19	4,682.26	477.11	686.24	-477.11	0.00	0.00	0.00
4,900.00	16.86	55.19	4,777.96	493.67	710.05	-493.67	0.00	0.00	0.00



Planning Report

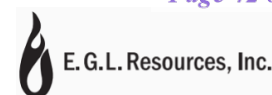


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 602H	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	16.86	55.19	4,873.66	510.22	733.87	-510.22	0.00	0.00	0.00	
5,100.00	16.86	55.19	4,969.37	526.78	757.68	-526.78	0.00	0.00	0.00	
5,200.00	16.86	55.19	5,065.07	543.34	781.50	-543.34	0.00	0.00	0.00	
5,300.00	16.86	55.19	5,160.77	559.90	805.31	-559.90	0.00	0.00	0.00	
5,400.00	16.86	55.19	5,256.47	576.45	829.13	-576.45	0.00	0.00	0.00	
5,500.00	16.86	55.19	5,352.17	593.01	852.94	-593.01	0.00	0.00	0.00	
5,600.00	16.86	55.19	5,447.87	609.57	876.76	-609.57	0.00	0.00	0.00	
5,700.00	16.86	55.19	5,543.57	626.13	900.57	-626.13	0.00	0.00	0.00	
5,800.00	16.86	55.19	5,639.27	642.68	924.39	-642.68	0.00	0.00	0.00	
5,831.13	16.86	55.19	5,669.06	647.84	931.80	-647.84	0.00	0.00	0.00	
Start Drop -2.00										
5,900.00	15.48	55.19	5,735.21	658.79	947.55	-658.79	2.00	-2.00	0.00	
6,000.00	13.48	55.19	5,832.02	673.06	968.09	-673.06	2.00	-2.00	0.00	
6,100.00	11.48	55.19	5,929.66	685.40	985.83	-685.40	2.00	-2.00	0.00	
6,200.00	9.48	55.19	6,027.98	695.79	1,000.77	-695.79	2.00	-2.00	0.00	
6,300.00	7.48	55.19	6,126.88	704.21	1,012.88	-704.21	2.00	-2.00	0.00	
6,400.00	5.48	55.19	6,226.24	710.66	1,022.16	-710.66	2.00	-2.00	0.00	
6,500.00	3.48	55.19	6,325.93	715.12	1,028.57	-715.12	2.00	-2.00	0.00	
6,600.00	1.48	55.19	6,425.83	717.59	1,032.13	-717.59	2.00	-2.00	0.00	
6,674.18	0.00	0.01	6,500.00	718.14	1,032.92	-718.14	2.00	-2.00	0.00	
Start 4407.04 hold at 6674.18 MD										
6,700.00	0.00	0.00	6,525.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,625.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,725.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,825.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,100.00	0.00	0.00	6,925.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,025.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,125.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,225.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,325.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,425.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,525.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,625.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,725.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,825.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,925.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,025.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,125.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,225.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,325.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,425.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,525.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,625.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,725.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,825.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,100.00	0.00	0.00	8,925.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,025.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,125.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,225.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,325.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,425.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,525.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,625.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,725.82	718.14	1,032.92	-718.14	0.00	0.00	0.00	



Planning Report

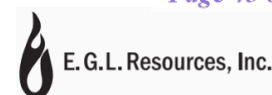


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 602H	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)
10,000.00	0.00	0.00	9,825.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,100.00	0.00	0.00	9,925.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,200.00	0.00	0.00	10,025.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,300.00	0.00	0.00	10,125.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,400.00	0.00	0.00	10,225.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,500.00	0.00	0.00	10,325.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,600.00	0.00	0.00	10,425.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,700.00	0.00	0.00	10,525.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,800.00	0.00	0.00	10,625.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
10,900.00	0.00	0.00	10,725.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
11,000.00	0.00	0.00	10,825.82	718.14	1,032.92	-718.14	0.00	0.00	0.00
11,081.22	0.00	0.00	10,907.04	718.14	1,032.92	-718.14	0.00	0.00	0.00
Start DLS 10.00 TFO 179.75									
11,100.00	1.88	179.75	10,925.82	717.83	1,032.92	-717.83	10.00	10.00	0.00
11,150.00	6.88	179.75	10,975.65	714.02	1,032.94	-714.02	10.00	10.00	0.00
11,200.00	11.88	179.75	11,024.97	705.87	1,032.97	-705.87	10.00	10.00	0.00
11,250.00	16.88	179.75	11,073.39	693.46	1,033.03	-693.46	10.00	10.00	0.00
11,300.00	21.88	179.75	11,120.54	676.88	1,033.10	-676.88	10.00	10.00	0.00
11,350.00	26.88	179.75	11,166.07	656.25	1,033.19	-656.25	10.00	10.00	0.00
11,400.00	31.88	179.75	11,209.63	631.72	1,033.30	-631.72	10.00	10.00	0.00
11,450.00	36.88	179.75	11,250.88	603.50	1,033.42	-603.50	10.00	10.00	0.00
11,500.00	41.88	179.75	11,289.52	571.79	1,033.56	-571.79	10.00	10.00	0.00
11,550.00	46.88	179.75	11,325.24	536.83	1,033.71	-536.83	10.00	10.00	0.00
11,600.00	51.88	179.75	11,357.78	498.89	1,033.88	-498.89	10.00	10.00	0.00
11,650.00	56.88	179.75	11,386.90	458.26	1,034.06	-458.26	10.00	10.00	0.00
11,700.00	61.88	179.75	11,412.36	415.25	1,034.25	-415.25	10.00	10.00	0.00
11,750.00	66.88	179.75	11,433.97	370.18	1,034.44	-370.18	10.00	10.00	0.00
11,800.00	71.88	179.75	11,451.58	323.40	1,034.65	-323.40	10.00	10.00	0.00
11,850.00	76.88	179.75	11,465.04	275.26	1,034.86	-275.26	10.00	10.00	0.00
11,900.00	81.88	179.75	11,474.25	226.14	1,035.08	-226.14	10.00	10.00	0.00
11,950.00	86.88	179.75	11,479.15	176.39	1,035.29	-176.39	10.00	10.00	0.00
11,981.22	90.00	179.75	11,480.00	145.19	1,035.43	-145.19	10.00	10.00	0.00
Start 10455.19 hold at 11981.22 MD									
12,000.00	90.00	179.75	11,480.00	126.41	1,035.51	-126.41	0.00	0.00	0.00
12,100.00	90.00	179.75	11,480.00	26.41	1,035.95	-26.41	0.00	0.00	0.00
12,200.00	90.00	179.75	11,480.00	-73.59	1,036.39	73.59	0.00	0.00	0.00
12,300.00	90.00	179.75	11,480.00	-173.59	1,036.83	173.59	0.00	0.00	0.00
12,400.00	90.00	179.75	11,480.00	-273.59	1,037.26	273.59	0.00	0.00	0.00
12,500.00	90.00	179.75	11,480.00	-373.59	1,037.70	373.59	0.00	0.00	0.00
12,600.00	90.00	179.75	11,480.00	-473.59	1,038.14	473.59	0.00	0.00	0.00
12,700.00	90.00	179.75	11,480.00	-573.58	1,038.58	573.58	0.00	0.00	0.00
12,800.00	90.00	179.75	11,480.00	-673.58	1,039.02	673.58	0.00	0.00	0.00
12,900.00	90.00	179.75	11,480.00	-773.58	1,039.46	773.58	0.00	0.00	0.00
13,000.00	90.00	179.75	11,480.00	-873.58	1,039.89	873.58	0.00	0.00	0.00
13,100.00	90.00	179.75	11,480.00	-973.58	1,040.33	973.58	0.00	0.00	0.00
13,200.00	90.00	179.75	11,480.00	-1,073.58	1,040.77	1,073.58	0.00	0.00	0.00
13,300.00	90.00	179.75	11,480.00	-1,173.58	1,041.21	1,173.58	0.00	0.00	0.00
13,400.00	90.00	179.75	11,480.00	-1,273.58	1,041.65	1,273.58	0.00	0.00	0.00
13,500.00	90.00	179.75	11,480.00	-1,373.58	1,042.08	1,373.58	0.00	0.00	0.00
13,600.00	90.00	179.75	11,480.00	-1,473.58	1,042.52	1,473.58	0.00	0.00	0.00
13,700.00	90.00	179.75	11,480.00	-1,573.57	1,042.96	1,573.57	0.00	0.00	0.00
13,800.00	90.00	179.75	11,480.00	-1,673.57	1,043.40	1,673.57	0.00	0.00	0.00
13,900.00	90.00	179.75	11,480.00	-1,773.57	1,043.84	1,773.57	0.00	0.00	0.00
14,000.00	90.00	179.75	11,480.00	-1,873.57	1,044.27	1,873.57	0.00	0.00	0.00



Planning Report

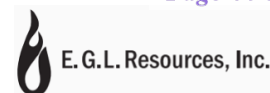


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 602H	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)
14,100.00	90.00	179.75	11,480.00	-1,973.57	1,044.71	1,973.57	0.00	0.00	0.00
14,200.00	90.00	179.75	11,480.00	-2,073.57	1,045.15	2,073.57	0.00	0.00	0.00
14,300.00	90.00	179.75	11,480.00	-2,173.57	1,045.59	2,173.57	0.00	0.00	0.00
14,400.00	90.00	179.75	11,480.00	-2,273.57	1,046.03	2,273.57	0.00	0.00	0.00
14,500.00	90.00	179.75	11,480.00	-2,373.57	1,046.47	2,373.57	0.00	0.00	0.00
14,600.00	90.00	179.75	11,480.00	-2,473.57	1,046.90	2,473.57	0.00	0.00	0.00
14,700.00	90.00	179.75	11,480.00	-2,573.57	1,047.34	2,573.57	0.00	0.00	0.00
14,800.00	90.00	179.75	11,480.00	-2,673.56	1,047.78	2,673.56	0.00	0.00	0.00
14,900.00	90.00	179.75	11,480.00	-2,773.56	1,048.22	2,773.56	0.00	0.00	0.00
15,000.00	90.00	179.75	11,480.00	-2,873.56	1,048.66	2,873.56	0.00	0.00	0.00
15,100.00	90.00	179.75	11,480.00	-2,973.56	1,049.09	2,973.56	0.00	0.00	0.00
15,200.00	90.00	179.75	11,480.00	-3,073.56	1,049.53	3,073.56	0.00	0.00	0.00
15,300.00	90.00	179.75	11,480.00	-3,173.56	1,049.97	3,173.56	0.00	0.00	0.00
15,400.00	90.00	179.75	11,480.00	-3,273.56	1,050.41	3,273.56	0.00	0.00	0.00
15,500.00	90.00	179.75	11,480.00	-3,373.56	1,050.85	3,373.56	0.00	0.00	0.00
15,600.00	90.00	179.75	11,480.00	-3,473.56	1,051.28	3,473.56	0.00	0.00	0.00
15,700.00	90.00	179.75	11,480.00	-3,573.56	1,051.72	3,573.56	0.00	0.00	0.00
15,800.00	90.00	179.75	11,480.00	-3,673.55	1,052.16	3,673.55	0.00	0.00	0.00
15,900.00	90.00	179.75	11,480.00	-3,773.55	1,052.60	3,773.55	0.00	0.00	0.00
16,000.00	90.00	179.75	11,480.00	-3,873.55	1,053.04	3,873.55	0.00	0.00	0.00
16,100.00	90.00	179.75	11,480.00	-3,973.55	1,053.48	3,973.55	0.00	0.00	0.00
16,200.00	90.00	179.75	11,480.00	-4,073.55	1,053.91	4,073.55	0.00	0.00	0.00
16,300.00	90.00	179.75	11,480.00	-4,173.55	1,054.35	4,173.55	0.00	0.00	0.00
16,400.00	90.00	179.75	11,480.00	-4,273.55	1,054.79	4,273.55	0.00	0.00	0.00
16,500.00	90.00	179.75	11,480.00	-4,373.55	1,055.23	4,373.55	0.00	0.00	0.00
16,600.00	90.00	179.75	11,480.00	-4,473.55	1,055.67	4,473.55	0.00	0.00	0.00
16,700.00	90.00	179.75	11,480.00	-4,573.55	1,056.10	4,573.55	0.00	0.00	0.00
16,800.00	90.00	179.75	11,480.00	-4,673.55	1,056.54	4,673.55	0.00	0.00	0.00
16,900.00	90.00	179.75	11,480.00	-4,773.54	1,056.98	4,773.54	0.00	0.00	0.00
17,000.00	90.00	179.75	11,480.00	-4,873.54	1,057.42	4,873.54	0.00	0.00	0.00
17,100.00	90.00	179.75	11,480.00	-4,973.54	1,057.86	4,973.54	0.00	0.00	0.00
17,200.00	90.00	179.75	11,480.00	-5,073.54	1,058.29	5,073.54	0.00	0.00	0.00
17,300.00	90.00	179.75	11,480.00	-5,173.54	1,058.73	5,173.54	0.00	0.00	0.00
17,400.00	90.00	179.75	11,480.00	-5,273.54	1,059.17	5,273.54	0.00	0.00	0.00
17,500.00	90.00	179.75	11,480.00	-5,373.54	1,059.61	5,373.54	0.00	0.00	0.00
17,600.00	90.00	179.75	11,480.00	-5,473.54	1,060.05	5,473.54	0.00	0.00	0.00
17,700.00	90.00	179.75	11,480.00	-5,573.54	1,060.48	5,573.54	0.00	0.00	0.00
17,800.00	90.00	179.75	11,480.00	-5,673.54	1,060.92	5,673.54	0.00	0.00	0.00
17,900.00	90.00	179.75	11,480.00	-5,773.53	1,061.36	5,773.53	0.00	0.00	0.00
18,000.00	90.00	179.75	11,480.00	-5,873.53	1,061.80	5,873.53	0.00	0.00	0.00
18,100.00	90.00	179.75	11,480.00	-5,973.53	1,062.24	5,973.53	0.00	0.00	0.00
18,200.00	90.00	179.75	11,480.00	-6,073.53	1,062.68	6,073.53	0.00	0.00	0.00
18,300.00	90.00	179.75	11,480.00	-6,173.53	1,063.11	6,173.53	0.00	0.00	0.00
18,400.00	90.00	179.75	11,480.00	-6,273.53	1,063.55	6,273.53	0.00	0.00	0.00
18,500.00	90.00	179.75	11,480.00	-6,373.53	1,063.99	6,373.53	0.00	0.00	0.00
18,600.00	90.00	179.75	11,480.00	-6,473.53	1,064.43	6,473.53	0.00	0.00	0.00
18,700.00	90.00	179.75	11,480.00	-6,573.53	1,064.87	6,573.53	0.00	0.00	0.00
18,800.00	90.00	179.75	11,480.00	-6,673.53	1,065.30	6,673.53	0.00	0.00	0.00
18,900.00	90.00	179.75	11,480.00	-6,773.53	1,065.74	6,773.53	0.00	0.00	0.00
19,000.00	90.00	179.75	11,480.00	-6,873.52	1,066.18	6,873.52	0.00	0.00	0.00
19,100.00	90.00	179.75	11,480.00	-6,973.52	1,066.62	6,973.52	0.00	0.00	0.00
19,200.00	90.00	179.75	11,480.00	-7,073.52	1,067.06	7,073.52	0.00	0.00	0.00
19,300.00	90.00	179.75	11,480.00	-7,173.52	1,067.49	7,173.52	0.00	0.00	0.00
19,400.00	90.00	179.75	11,480.00	-7,273.52	1,067.93	7,273.52	0.00	0.00	0.00



Planning Report

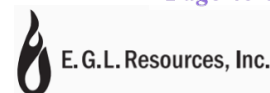


Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
Company:	E.G.L. Resources, Inc.	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Project:	Lea, County NM (NAD 83)	MD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
Site:	Millie Mile Pad	North Reference:	Grid
Well:	Millie Mile 13-24 Fed Com 602H	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)	
19,500.00	90.00	179.75	11,480.00	-7,373.52	1,068.37	7,373.52	0.00	0.00	0.00	
19,600.00	90.00	179.75	11,480.00	-7,473.52	1,068.81	7,473.52	0.00	0.00	0.00	
19,700.00	90.00	179.75	11,480.00	-7,573.52	1,069.25	7,573.52	0.00	0.00	0.00	
19,800.00	90.00	179.75	11,480.00	-7,673.52	1,069.69	7,673.52	0.00	0.00	0.00	
19,900.00	90.00	179.75	11,480.00	-7,773.52	1,070.12	7,773.52	0.00	0.00	0.00	
20,000.00	90.00	179.75	11,480.00	-7,873.51	1,070.56	7,873.51	0.00	0.00	0.00	
20,100.00	90.00	179.75	11,480.00	-7,973.51	1,071.00	7,973.51	0.00	0.00	0.00	
20,200.00	90.00	179.75	11,480.00	-8,073.51	1,071.44	8,073.51	0.00	0.00	0.00	
20,300.00	90.00	179.75	11,480.00	-8,173.51	1,071.88	8,173.51	0.00	0.00	0.00	
20,400.00	90.00	179.75	11,480.00	-8,273.51	1,072.31	8,273.51	0.00	0.00	0.00	
20,500.00	90.00	179.75	11,480.00	-8,373.51	1,072.75	8,373.51	0.00	0.00	0.00	
20,600.00	90.00	179.75	11,480.00	-8,473.51	1,073.19	8,473.51	0.00	0.00	0.00	
20,700.00	90.00	179.75	11,480.00	-8,573.51	1,073.63	8,573.51	0.00	0.00	0.00	
20,800.00	90.00	179.75	11,480.00	-8,673.51	1,074.07	8,673.51	0.00	0.00	0.00	
20,900.00	90.00	179.75	11,480.00	-8,773.51	1,074.50	8,773.51	0.00	0.00	0.00	
21,000.00	90.00	179.75	11,480.00	-8,873.50	1,074.94	8,873.50	0.00	0.00	0.00	
21,100.00	90.00	179.75	11,480.00	-8,973.50	1,075.38	8,973.50	0.00	0.00	0.00	
21,200.00	90.00	179.75	11,480.00	-9,073.50	1,075.82	9,073.50	0.00	0.00	0.00	
21,300.00	90.00	179.75	11,480.00	-9,173.50	1,076.26	9,173.50	0.00	0.00	0.00	
21,400.00	90.00	179.75	11,480.00	-9,273.50	1,076.70	9,273.50	0.00	0.00	0.00	
21,500.00	90.00	179.75	11,480.00	-9,373.50	1,077.13	9,373.50	0.00	0.00	0.00	
21,600.00	90.00	179.75	11,480.00	-9,473.50	1,077.57	9,473.50	0.00	0.00	0.00	
21,700.00	90.00	179.75	11,480.00	-9,573.50	1,078.01	9,573.50	0.00	0.00	0.00	
21,800.00	90.00	179.75	11,480.00	-9,673.50	1,078.45	9,673.50	0.00	0.00	0.00	
21,900.00	90.00	179.75	11,480.00	-9,773.50	1,078.89	9,773.50	0.00	0.00	0.00	
22,000.00	90.00	179.75	11,480.00	-9,873.50	1,079.32	9,873.50	0.00	0.00	0.00	
22,100.00	90.00	179.75	11,480.00	-9,973.49	1,079.76	9,973.49	0.00	0.00	0.00	
22,200.00	90.00	179.75	11,480.00	-10,073.49	1,080.20	10,073.49	0.00	0.00	0.00	
22,300.00	90.00	179.75	11,480.00	-10,173.49	1,080.64	10,173.49	0.00	0.00	0.00	
22,400.00	90.00	179.75	11,480.00	-10,273.49	1,081.08	10,273.49	0.00	0.00	0.00	
22,436.41	90.00	179.75	11,480.00	-10,309.90	1,081.24	10,309.90	0.00	0.00	0.00	
TD at 22436.41										



Planning Report



Database:	1 - EDM Production	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
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 602H	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 602H SHL - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	607,044.97	759,438.58	32.66681087	-103.62458466
MM 602H VP - plan hits target center - Point	0.00	0.00	6,500.00	718.14	1,032.92	607,763.11	760,471.50	32.66876568	-103.62121262
MM 602H KOP - plan hits target center - Point	0.00	0.00	10,907.04	718.14	1,032.92	607,763.11	760,471.50	32.66876568	-103.62121262
MM 602H FTP/PPP1(10' - plan misses target center by 0.01usft at 11981.22usft MD (11480.00 TVD, 145.19 N, 1035.43 E) - Point	0.00	0.00	11,480.00	145.19	1,035.43	607,190.17	760,474.00	32.66719088	-103.62121696
MM 602H PPP3(0' FNL - plan misses target center by 2.85usft at 17162.92usft MD (11480.00 TVD, -5036.46 N, 1058.13 E) - Point	0.00	0.00	11,480.00	-5,036.47	1,055.28	602,008.50	760,493.86	32.65294870	-103.62126538
MM 602H LTP(100' FSL - plan misses target center by 0.05usft at 22346.41usft MD (11480.00 TVD, -10219.90 N, 1080.84 E) - Point	0.00	0.00	11,480.00	-10,219.90	1,080.79	596,825.07	760,519.37	32.63870151	-103.62129539
MM 602H PPP2(1319' F - plan misses target center by 2.13usft at 15842.88usft MD (11480.00 TVD, -3716.43 N, 1052.35 E) - Point	0.00	0.00	11,480.00	-3,716.44	1,050.22	603,328.53	760,488.80	32.65657690	-103.62125306
MM 602H PBHL(10' FSL - plan hits target center - Point	0.00	0.00	11,480.00	-10,309.90	1,081.24	596,735.07	760,519.81	32.63845414	-103.62129591

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
22,441.16		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
2,343.05	2,330.94	70.30	101.12	Start 3488.07 hold at 2343.05 MD
5,831.13	5,669.06	647.84	931.80	Start Drop -2.00
6,674.18	6,500.00	718.14	1,032.92	Start 4407.04 hold at 6674.18 MD
11,081.22	10,907.04	718.14	1,032.92	Start DLS 10.00 TFO 179.75
11,981.22	11,480.00	145.19	1,035.43	Start 10455.19 hold at 11981.22 MD
22,436.41	11,480.00	-10,309.90	1,081.24	TD at 22436.41



E.G.L. Resources, Inc.

Lea, County NM (NAD 83)

Millie Mile Pad

Millie Mile 13-24 Fed Com 602H

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 602H
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 602H	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	22,436.41	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	9,797.07	9,928.00	206.32	165.37	5.038	CC
BUFFALO 12-1 FED COM 2BS 1H - Wellbore #1 - Wellbo	9,800.00	9,928.36	206.34	165.29	5.027	ES, SF
BUFFALO 12-1 FED COM WCC 6H - Wellbore #1 - Wellb	11,650.13	11,421.83	82.03	36.42	1.798	Collision Risk Procedures R
ESMERALDA 24 FEDERAL 1 (P&A) - Wellbore #1 - Well	20,795.93	11,423.43	769.11	499.68	2.855	CC
ESMERALDA 24 FEDERAL 1 (P&A) - Wellbore #1 - Well	20,800.00	11,423.43	769.12	499.62	2.854	ES, SF
LA RICA FEDERAL 1 (P&A) - Wellbore #1 - Wellbore #1	15,190.01	11,455.43	574.54	341.54	2.466	CC, ES, SF
Millie Mile 13-24 Fed Com 101H - Wellbore #1 - Plan 3	2,992.67	2,958.82	64.56	45.83	3.446	CC, ES, SF
Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3	2,513.43	2,447.74	224.55	207.75	13.371	CC
Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3	2,600.00	2,533.37	224.88	207.68	13.081	ES
Millie Mile 13-24 Fed Com 102H - Wellbore #1 - Plan 3	6,400.00	6,325.35	341.70	303.67	8.984	SF
Millie Mile 13-24 Fed Com 201H - Wellbore #1 - Plan 3	3,200.00	3,159.03	96.11	74.52	4.451	SF
Millie Mile 13-24 Fed Com 201H - Wellbore #1 - Plan 3	3,221.67	3,180.40	96.05	74.52	4.461	CC, ES
Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3	1,200.00	1,200.00	243.31	235.00	29.293	CC, ES
Millie Mile 13-24 Fed Com 202H - Wellbore #1 - Plan 3	22,436.41	21,284.08	1,451.14	1,244.25	7.014	SF
Millie Mile 13-24 Fed Com 601H - Wellbore #1 - Plan 3	1,500.00	1,500.00	40.00	30.59	4.251	CC, ES
Millie Mile 13-24 Fed Com 601H - Wellbore #1 - Plan 3	1,700.00	1,697.35	42.56	31.78	3.948	SF
Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3	2,418.33	2,359.02	257.29	242.25	17.107	CC, ES
Millie Mile 13-24 Fed Com 603H - Wellbore #1 - Plan 3	22,436.41	22,584.05	1,100.00	927.21	6.366	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	1,600.00	1,599.45	20.37	10.44	2.052	ES
Millie Mile 13-24 Fed Com 801H - Wellbore #1 - Plan 3	1,700.00	1,698.89	21.50	10.87	2.023	SF

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	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
0.00	0.00	10.93	-0.40	0.50	0.50	72.05	370.63	1,144.37	1,202.89			
100.00	100.00	107.36	96.03	0.66	0.74	72.05	370.84	1,144.49	1,203.08	1,201.68	1.40	859.552
200.00	200.00	204.07	192.73	1.35	1.10	72.02	371.43	1,144.80	1,203.57	1,201.13	2.43	494.391
300.00	300.00	308.37	297.04	1.82	1.59	71.99	372.23	1,145.00	1,203.98	1,200.61	3.37	356.766
400.00	400.00	411.13	399.79	2.19	2.04	71.95	373.15	1,144.81	1,204.09	1,199.94	4.15	289.930
500.00	500.00	512.45	501.10	2.51	2.41	71.91	373.90	1,144.53	1,204.06	1,199.26	4.80	250.812
600.00	600.00	612.98	601.63	2.80	2.74	71.88	374.36	1,144.24	1,203.93	1,198.55	5.37	224.146

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 602H
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 602H	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		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)			
675.01	675.01	686.36	675.01	2.99	2.96	71.86	374.76	1,144.03	1,203.85	1,198.10	5.75	209.477	
700.00	700.00	710.23	698.89	3.06	3.02	71.85	374.93	1,143.99	1,203.86	1,198.00	5.87	205.236	
800.00	800.00	812.08	800.73	3.30	3.32	71.81	375.76	1,143.82	1,203.96	1,197.62	6.34	189.832	
900.00	900.00	915.42	904.07	3.53	3.61	71.78	376.46	1,143.36	1,203.75	1,196.95	6.80	177.019	
1,000.00	1,000.00	1,017.29	1,005.93	3.75	3.89	71.74	377.08	1,142.71	1,203.33	1,196.10	7.23	166.423	
1,100.00	1,100.00	1,121.59	1,110.22	3.96	4.17	71.69	377.86	1,141.71	1,202.66	1,195.01	7.64	157.315	
1,200.00	1,200.00	1,221.68	1,210.30	4.15	4.43	71.64	378.56	1,140.58	1,201.80	1,193.76	8.04	149.484	
1,300.00	1,300.00	1,321.50	1,310.11	4.34	4.68	71.59	379.19	1,139.47	1,200.95	1,192.52	8.43	142.529	
1,400.00	1,400.00	1,420.00	1,408.61	4.53	4.92	71.56	379.57	1,138.53	1,200.17	1,191.37	8.80	136.417	
1,500.00	1,500.00	1,515.77	1,504.38	4.70	5.12	71.54	379.90	1,137.78	1,199.54	1,190.40	9.14	131.258	
1,600.00	1,599.98	1,600.63	1,589.23	5.03	5.35	16.35	380.40	1,137.85	1,198.12	1,188.56	9.57	125.221	
1,700.00	1,699.84	1,690.05	1,678.65	5.67	5.59	16.42	381.15	1,138.99	1,194.57	1,184.25	10.32	115.776	
1,800.00	1,799.45	1,787.72	1,776.30	6.27	5.79	16.54	382.28	1,140.52	1,188.05	1,177.03	11.02	107.803	
1,900.00	1,898.70	1,883.77	1,872.33	6.84	5.94	16.73	383.52	1,142.21	1,178.44	1,166.74	11.69	100.766	
2,000.00	1,997.47	1,980.75	1,969.27	7.39	6.09	16.98	384.98	1,144.16	1,165.81	1,153.45	12.36	94.314	
2,100.00	2,095.62	2,076.65	2,065.14	7.93	6.25	17.30	386.52	1,146.14	1,149.97	1,136.95	13.02	88.317	
2,200.00	2,193.06	2,170.70	2,159.15	8.46	6.41	17.70	388.16	1,148.47	1,131.30	1,117.62	13.68	82.717	
2,300.00	2,289.64	2,266.09	2,254.49	8.99	6.59	18.19	389.85	1,150.99	1,109.58	1,095.25	14.34	77.398	
2,400.00	2,385.44	2,360.94	2,349.28	9.25	6.77	18.67	391.68	1,153.69	1,085.43	1,070.68	14.75	73.565	
2,500.00	2,481.14	2,454.28	2,442.56	9.52	6.97	19.08	393.77	1,156.39	1,061.18	1,046.00	15.17	69.940	
2,600.00	2,576.84	2,553.54	2,541.72	9.83	7.20	19.49	397.07	1,159.30	1,037.31	1,021.64	15.67	66.211	
2,700.00	2,672.54	2,656.99	2,645.12	10.15	7.41	20.08	397.78	1,162.24	1,012.71	996.52	16.19	62.545	
2,800.00	2,768.24	2,748.38	2,736.47	10.48	7.52	20.69	397.37	1,165.02	988.13	971.45	16.68	59.252	
2,900.00	2,863.94	2,839.19	2,827.20	10.83	7.62	21.35	396.70	1,168.56	964.40	947.24	17.16	56.213	
3,000.00	2,959.64	2,933.53	2,921.46	11.19	7.73	22.08	396.01	1,172.56	941.13	923.48	17.65	53.311	
3,100.00	3,055.34	3,045.30	3,033.14	11.56	7.85	22.99	394.95	1,176.95	917.74	899.57	18.17	50.506	
3,200.00	3,151.04	3,155.97	3,143.78	11.95	7.92	23.94	393.58	1,178.90	892.36	873.72	18.65	47.854	
3,300.00	3,246.75	3,255.91	3,243.71	12.34	7.94	24.84	392.41	1,179.69	866.29	847.22	19.07	45.429	
3,400.00	3,342.45	3,354.70	3,342.49	12.74	7.94	25.76	391.42	1,180.05	840.03	820.57	19.46	43.170	
3,500.00	3,438.15	3,450.69	3,438.49	13.14	7.95	26.68	391.03	1,180.10	813.77	793.93	19.83	41.029	
3,600.00	3,533.85	3,547.51	3,535.30	13.56	8.06	27.63	390.94	1,180.00	787.62	767.36	20.26	38.871	
3,700.00	3,629.55	3,644.26	3,632.06	13.98	8.19	28.63	391.04	1,179.73	761.55	740.85	20.69	36.800	
3,800.00	3,725.25	3,740.46	3,728.25	14.41	8.46	29.68	391.43	1,179.33	735.60	714.38	21.22	34.670	
3,900.00	3,820.95	3,836.85	3,824.64	14.84	8.72	30.77	392.17	1,178.82	709.82	688.10	21.72	32.683	
4,000.00	3,916.65	3,934.11	3,921.88	15.27	8.87	31.92	393.27	1,178.09	684.12	662.05	22.07	31.001	
4,100.00	4,012.35	4,029.42	4,017.19	15.71	9.00	33.13	394.40	1,177.29	658.61	636.22	22.39	29.413	
4,200.00	4,108.06	4,123.95	4,111.71	16.16	9.13	34.45	395.25	1,176.67	633.57	610.87	22.70	27.909	
4,300.00	4,203.76	4,220.91	4,208.67	16.61	9.26	35.92	395.96	1,175.96	608.81	585.84	22.98	26.495	
4,400.00	4,299.46	4,315.49	4,303.24	17.06	9.38	37.49	396.57	1,175.27	584.48	561.23	23.24	25.145	
4,500.00	4,395.16	4,410.13	4,397.88	17.51	9.53	39.18	397.21	1,174.78	560.81	537.30	23.51	23.852	
4,600.00	4,490.86	4,506.53	4,494.28	17.97	9.78	41.03	397.99	1,174.29	537.67	513.82	23.85	22.545	
4,700.00	4,586.56	4,602.66	4,590.40	18.43	10.02	43.03	398.88	1,173.70	515.00	490.86	24.14	21.335	
4,800.00	4,682.26	4,697.97	4,685.70	18.90	10.17	45.20	399.53	1,173.13	493.04	468.73	24.31	20.282	
4,900.00	4,777.96	4,794.45	4,782.18	19.36	10.31	47.60	400.24	1,172.41	471.72	447.30	24.42	19.318	
5,000.00	4,873.66	4,888.41	4,876.14	19.83	10.46	50.12	401.03	1,171.94	451.48	426.97	24.51	18.420	
5,100.00	4,969.37	4,984.58	4,972.30	20.30	10.62	52.94	401.69	1,171.51	432.33	407.79	24.54	17.618	
5,200.00	5,065.07	5,080.75	5,068.47	20.77	10.78	56.01	402.30	1,170.93	414.20	389.65	24.55	16.871	
5,300.00	5,160.77	5,175.94	5,163.66	21.25	11.02	59.31	402.89	1,170.37	397.40	372.79	24.60	16.152	
5,400.00	5,256.47	5,271.05	5,258.76	21.72	11.26	62.85	403.43	1,169.91	382.20	357.57	24.63	15.517	
5,500.00	5,352.17	5,365.77	5,353.49	22.20	11.51	66.63	403.93	1,169.67	368.88	344.25	24.63	14.977	
5,600.00	5,447.87	5,460.76	5,448.47	22.68	11.73	70.64	404.41	1,169.70	357.64	333.05	24.59	14.542	
5,700.00	5,543.57	5,555.94	5,543.65	23.16	11.88	74.87	404.83	1,169.89	348.57	324.08	24.50	14.228	

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 602H
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 602H	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					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	
5,800.00	5,639.27	5,650.54	5,638.25	23.64	11.99	79.25	405.06	1,170.24	341.92	317.44	24.47	13.971		
5,900.00	5,735.21	5,744.35	5,732.06	24.11	12.04	83.58	404.89	1,170.81	338.11	313.57	24.54	13.779		
5,960.07	5,793.26	5,799.97	5,787.66	24.43	12.04	86.14	403.70	1,170.49	337.47	312.77	24.69	13.666		
6,000.00	5,832.02	5,837.83	5,825.50	24.65	12.03	87.88	402.46	1,170.00	337.70	312.88	24.82	13.605		
6,100.00	5,929.66	5,932.18	5,919.78	25.20	11.99	91.83	399.12	1,168.94	339.98	314.75	25.22	13.480		
6,200.00	6,027.98	6,025.12	6,012.59	25.73	11.91	95.34	394.30	1,167.70	344.96	319.41	25.55	13.503		
6,300.00	6,126.88	6,121.18	6,108.44	26.25	11.82	98.47	388.21	1,166.20	351.71	325.80	25.91	13.574		
6,400.00	6,226.24	6,220.47	6,207.52	26.74	11.73	101.02	381.75	1,164.85	359.01	332.74	26.27	13.665		
6,500.00	6,325.93	6,320.36	6,307.19	27.19	11.65	103.00	375.62	1,163.09	365.65	339.05	26.60	13.745		
6,600.00	6,425.83	6,418.45	6,405.04	27.59	11.59	104.47	369.03	1,160.73	372.11	345.24	26.86	13.852		
6,700.00	6,525.82	6,512.13	6,498.45	27.74	11.56	160.54	362.31	1,158.64	378.37	351.39	26.99	14.021		
6,800.00	6,625.82	6,602.70	6,588.58	27.77	11.55	161.18	353.49	1,157.22	387.05	360.00	27.05	14.308		
6,900.00	6,725.82	6,701.11	6,686.38	27.80	11.54	161.85	342.69	1,155.98	397.07	369.87	27.19	14.601		
7,000.00	6,825.82	6,799.88	6,784.57	27.84	11.51	162.53	332.06	1,154.41	406.84	379.51	27.33	14.888		
7,100.00	6,925.82	6,899.35	6,883.39	27.88	11.51	163.19	320.76	1,153.00	417.29	389.82	27.47	15.189		
7,200.00	7,025.82	6,998.90	6,982.36	27.92	11.52	163.75	310.11	1,151.88	427.23	399.61	27.62	15.468		
7,300.00	7,125.82	7,098.03	7,080.89	27.95	11.56	164.25	299.21	1,151.03	437.58	409.81	27.77	15.758		
7,400.00	7,225.82	7,191.96	7,174.23	27.99	11.62	164.65	288.77	1,150.76	448.22	420.36	27.86	16.088		
7,500.00	7,325.82	7,287.03	7,268.58	28.03	11.70	164.86	277.19	1,152.22	460.38	432.44	27.94	16.475		
7,600.00	7,425.82	7,389.04	7,369.81	28.07	11.77	164.99	264.81	1,154.48	472.68	444.58	28.09	16.824		
7,700.00	7,525.82	7,489.10	7,469.18	28.11	11.85	165.04	253.42	1,157.07	484.34	456.11	28.23	17.158		
7,800.00	7,625.82	7,591.05	7,570.45	28.15	11.93	164.95	242.32	1,160.90	495.83	467.47	28.37	17.480		
7,900.00	7,725.82	7,693.70	7,672.50	28.18	12.02	164.82	231.86	1,164.86	506.68	478.16	28.52	17.767		
8,000.00	7,825.82	7,795.92	7,774.17	28.22	12.12	164.72	221.98	1,168.47	516.93	488.25	28.68	18.022		
8,100.00	7,925.82	7,898.36	7,876.12	28.26	12.22	164.63	212.58	1,171.86	526.65	497.79	28.86	18.245		
8,200.00	8,025.82	8,001.94	7,979.27	28.30	12.32	164.62	203.53	1,174.49	535.75	506.68	29.08	18.425		
8,300.00	8,125.82	8,109.64	8,086.62	28.34	12.43	164.66	195.08	1,176.41	543.80	514.46	29.34	18.532		
8,400.00	8,225.82	8,212.95	8,189.72	28.38	12.54	164.72	188.46	1,177.60	550.27	520.67	29.60	18.591		
8,500.00	8,325.82	8,307.31	8,283.82	28.42	12.66	164.62	182.24	1,180.38	557.40	527.64	29.76	18.730		
8,600.00	8,425.82	8,409.19	8,385.39	28.46	12.79	164.42	175.28	1,184.27	565.01	535.05	29.96	18.859		
8,700.00	8,525.82	8,517.05	8,493.01	28.50	12.92	164.24	169.11	1,187.86	571.41	541.21	30.21	18.916		
8,800.00	8,625.82	8,624.29	8,600.10	28.54	13.05	164.08	164.29	1,190.92	576.52	546.07	30.45	18.931		
8,900.00	8,725.82	8,729.81	8,705.53	28.58	13.19	163.93	160.70	1,193.53	580.47	549.78	30.69	18.916		
9,000.00	8,825.82	8,835.11	8,810.78	28.62	13.32	163.82	158.09	1,195.42	583.34	552.44	30.91	18.875		
9,100.00	8,925.82	8,941.01	8,916.65	28.66	13.44	163.75	155.98	1,196.79	585.63	554.50	31.13	18.814		
9,200.00	9,025.82	9,246.88	9,213.66	28.70	14.28	161.68	218.14	1,198.43	559.18	526.60	32.57	17.166		
9,300.00	9,125.82	9,496.54	9,432.33	28.75	14.22	155.67	335.38	1,206.01	520.01	486.71	33.30	15.615		
9,400.00	9,225.82	9,796.85	9,595.11	28.79	15.12	124.60	581.78	1,230.58	440.50	406.28	34.23	12.870		
9,500.00	9,325.82	9,858.66	9,610.88	28.83	15.54	110.77	641.32	1,235.51	358.05	323.37	34.68	10.325		
9,600.00	9,425.82	9,891.04	9,617.20	28.87	15.81	102.44	673.01	1,237.45	283.72	248.17	35.55	7.982		
9,700.00	9,525.82	9,913.93	9,620.96	28.91	16.00	96.26	695.57	1,238.48	227.63	189.91	37.71	6.036		
9,797.07	9,622.89	9,928.00	9,622.90	28.95	16.14	92.40	709.50	1,239.05	206.32	165.37	40.95	5.038 CC		
9,800.00	9,625.82	9,928.36	9,622.94	28.95	16.14	92.30	709.86	1,239.07	206.34	165.29	41.05	5.027 ES, SF		
9,900.00	9,725.82	9,938.92	9,624.18	29.00	16.24	89.39	720.33	1,239.51	230.25	186.89	43.36	5.310		
10,000.00	9,825.82	9,946.86	9,624.98	29.04	16.31	87.21	728.22	1,239.85	288.55	244.78	43.76	6.593		
10,100.00	9,925.82	9,953.05	9,625.53	29.08	16.37	85.52	734.38	1,240.12	365.20	321.74	43.46	8.403		
10,200.00	10,025.82	9,958.00	9,625.93	29.12	16.42	84.17	739.31	1,240.34	450.98	407.85	43.13	10.456		
10,300.00	10,125.82	9,975.00	9,626.97	29.17	16.57	79.62	756.26	1,241.10	541.89	498.71	43.18	12.550		
10,400.00	10,225.82	9,975.00	9,626.97	29.21	16.57	79.62	756.26	1,241.10	635.15	592.16	42.99	14.775		
10,500.00	10,325.82	9,975.00	9,626.97	29.25	16.57	79.62	756.26	1,241.10	730.20	687.28	42.92	17.014		
10,600.00	10,425.82	9,975.00	9,626.97	29.30	16.57	79.62	756.26	1,241.10	826.41	783.48	42.93	19.248		
10,700.00	10,525.82	9,975.00	9,626.97	29.34	16.57	79.62	756.26	1,241.10	923.43	880.42	43.01	21.468		

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 602H
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 602H	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							Rule Assigned:						Offset Well Error: 0.50 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,800.00	10,625.82	9,975.00	9,626.97	29.38	16.57	79.62	756.26	1,241.10	1,021.03	977.88	43.14	23.666	
10,900.00	10,725.82	9,975.00	9,626.97	29.43	16.57	79.62	756.26	1,241.10	1,119.05	1,075.74	43.31	25.839	
11,000.00	10,825.82	9,975.00	9,626.97	29.47	16.57	79.62	756.26	1,241.10	1,217.39	1,173.89	43.50	27.985	
11,100.00	10,925.82	9,975.00	9,626.97	29.49	16.57	-88.61	756.26	1,241.10	1,315.99	1,272.27	43.72	30.101	
11,200.00	11,024.97	9,975.00	9,626.97	29.36	16.57	-41.04	756.26	1,241.10	1,414.31	1,370.30	44.00	32.140	
11,300.00	11,120.54	9,975.00	9,626.97	29.21	16.57	-23.30	756.26	1,241.10	1,510.08	1,465.70	44.38	34.027	
11,400.00	11,209.63	9,975.00	9,626.97	29.03	16.57	-15.91	756.26	1,241.10	1,601.09	1,556.27	44.83	35.718	
11,500.00	11,289.52	9,944.97	9,624.80	28.85	16.29	-11.72	726.35	1,239.77	1,684.55	1,639.47	45.07	37.373	
11,600.00	11,357.78	9,911.00	9,620.51	28.68	15.98	-9.35	692.68	1,238.36	1,759.97	1,714.61	45.36	38.800	
11,700.00	11,412.36	9,911.00	9,620.51	28.55	15.98	-8.06	692.68	1,238.36	1,824.65	1,778.69	45.96	39.697	
11,800.00	11,451.58	9,881.39	9,615.44	28.46	15.73	-7.08	663.54	1,236.93	1,878.30	1,831.85	46.46	40.429	
11,900.00	11,474.25	9,864.00	9,612.00	28.44	15.58	-6.48	646.53	1,235.86	1,919.64	1,872.62	47.02	40.824	
12,000.00	11,480.00	9,817.00	9,600.87	28.48	15.24	-6.04	601.01	1,232.30	1,948.10	1,900.79	47.32	41.170	
12,100.00	11,480.00	9,817.00	9,600.87	28.56	15.24	-6.04	601.01	1,232.30	1,974.81	1,927.12	47.68	41.414	
12,200.00	11,480.00	9,770.00	9,586.26	28.65	14.96	-5.87	556.54	1,228.30	2,005.03	1,957.20	47.84	41.915	
12,300.00	11,480.00	9,770.00	9,586.26	28.76	14.96	-5.87	556.54	1,228.30	2,038.63	1,990.44	48.19	42.307	
12,400.00	11,480.00	9,723.00	9,568.26	28.88	14.72	-5.69	513.31	1,224.41	2,075.81	2,027.39	48.42	42.874	

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 602H
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 602H	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													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	7.68	-0.05	0.50	0.50	71.14	370.41	1,084.34	1,145.86				
100.00	100.00	107.03	99.30	0.66	0.74	71.14	370.34	1,084.40	1,145.89	1,144.50	1.40	820.652	
200.00	200.00	207.97	200.24	1.35	1.24	71.16	370.09	1,084.54	1,145.94	1,143.36	2.58	444.228	
279.17	279.17	286.91	279.17	1.72	1.69	71.18	369.67	1,084.64	1,145.91	1,142.53	3.38	339.192	
300.00	300.00	307.33	299.60	1.82	1.80	71.19	369.55	1,084.69	1,145.91	1,142.33	3.58	319.761	
400.00	400.00	407.24	399.51	2.19	2.35	71.22	369.00	1,084.96	1,145.99	1,141.52	4.48	255.820	
500.00	500.00	509.30	501.57	2.51	2.91	71.24	368.54	1,085.07	1,145.95	1,140.62	5.33	215.025	
600.00	600.00	612.92	605.18	2.80	3.20	71.26	368.12	1,084.92	1,145.68	1,139.81	5.87	195.066	
700.00	700.00	712.48	704.74	3.06	3.39	71.28	367.58	1,084.44	1,145.06	1,138.75	6.31	181.464	
800.00	800.00	818.33	810.59	3.30	3.66	71.28	367.42	1,084.06	1,144.68	1,137.85	6.83	167.674	
900.00	900.00	934.00	926.24	3.53	3.96	71.27	366.89	1,082.20	1,143.00	1,135.62	7.38	154.930	
1,000.00	1,000.00	1,037.61	1,029.82	3.75	4.20	71.27	366.09	1,079.63	1,140.40	1,132.56	7.84	145.449	
1,100.00	1,100.00	1,142.91	1,135.07	3.96	4.46	71.28	365.02	1,076.94	1,137.66	1,129.35	8.30	137.013	
1,200.00	1,200.00	1,252.35	1,244.45	4.15	4.74	71.31	363.07	1,073.56	1,134.16	1,125.38	8.78	129.204	
1,300.00	1,300.00	1,356.57	1,348.57	4.34	5.03	71.38	360.50	1,069.88	1,130.03	1,120.79	9.24	122.256	
1,400.00	1,400.00	1,447.02	1,438.94	4.53	5.28	71.43	358.40	1,066.88	1,126.14	1,116.47	9.67	116.444	
1,500.00	1,500.00	1,566.38	1,558.18	4.70	5.67	71.49	355.60	1,062.26	1,121.71	1,111.49	10.22	109.777	
1,600.00	1,599.98	1,659.00	1,650.67	5.03	6.01	16.40	353.35	1,057.89	1,114.82	1,103.96	10.86	102.673	
1,700.00	1,699.84	1,754.00	1,745.57	5.67	6.29	16.58	351.01	1,054.13	1,105.29	1,093.55	11.74	94.180	
1,800.00	1,799.45	1,850.00	1,841.49	6.27	6.57	16.84	348.80	1,050.94	1,093.08	1,080.51	12.57	86.981	
1,900.00	1,898.70	1,946.45	1,937.86	6.84	6.85	17.14	347.08	1,047.63	1,077.64	1,064.26	13.37	80.572	
2,000.00	1,997.47	2,042.93	2,034.29	7.39	7.12	17.52	345.71	1,044.47	1,059.18	1,045.02	14.16	74.790	
2,100.00	2,095.62	2,136.00	2,127.30	7.93	7.39	17.98	344.36	1,041.58	1,037.64	1,022.72	14.93	69.524	
2,200.00	2,193.06	2,229.56	2,220.81	8.46	7.65	18.54	343.03	1,039.02	1,013.28	997.61	15.67	64.671	
2,300.00	2,289.64	2,326.49	2,317.70	8.99	7.93	19.24	341.85	1,036.55	986.00	969.59	16.41	60.101	
2,400.00	2,385.44	2,420.00	2,411.18	9.25	8.19	19.90	340.85	1,034.14	956.17	939.28	16.88	56.629	
2,500.00	2,481.14	2,512.47	2,503.62	9.52	8.44	20.50	340.05	1,031.90	926.34	908.96	17.38	53.314	
2,600.00	2,576.84	2,600.30	2,591.42	9.83	8.67	21.16	338.68	1,030.42	897.12	879.26	17.86	50.234	
2,700.00	2,672.54	2,696.36	2,687.47	10.15	8.90	21.93	337.24	1,029.18	868.43	850.09	18.34	47.351	
2,800.00	2,768.24	2,784.00	2,775.09	10.48	9.10	22.60	336.90	1,028.06	840.14	821.33	18.80	44.678	
2,900.00	2,863.94	2,877.38	2,868.47	10.83	9.26	23.38	336.55	1,027.56	812.68	793.44	19.24	42.242	
3,000.00	2,959.64	2,963.72	2,954.81	11.19	9.30	24.08	337.25	1,027.33	785.85	766.24	19.61	40.066	
3,100.00	3,055.34	3,056.42	3,047.50	11.56	9.24	24.88	338.16	1,028.10	760.24	740.34	19.90	38.204	
3,200.00	3,151.04	3,155.49	3,146.55	11.95	9.18	25.72	339.97	1,028.64	734.65	714.47	20.18	36.406	
3,300.00	3,246.75	3,248.20	3,239.25	12.34	9.13	26.55	341.80	1,028.98	709.08	688.60	20.48	34.622	
3,400.00	3,342.45	3,340.58	3,331.60	12.74	9.05	27.45	343.53	1,030.00	684.34	663.59	20.76	32.972	
3,500.00	3,438.15	3,437.00	3,427.99	13.14	8.98	28.44	345.63	1,031.30	660.08	639.06	21.02	31.409	
3,600.00	3,533.85	3,536.22	3,527.17	13.56	8.92	29.49	348.19	1,032.33	635.74	614.45	21.29	29.861	
3,700.00	3,629.55	3,635.63	3,626.53	13.98	8.90	30.59	351.09	1,032.80	611.11	589.52	21.59	28.299	
3,800.00	3,725.25	3,730.51	3,721.36	14.41	8.90	31.67	354.43	1,032.99	586.49	564.56	21.92	26.751	
3,900.00	3,820.95	3,825.50	3,816.26	14.84	8.90	32.77	358.47	1,033.47	562.41	540.16	22.25	25.280	
4,000.00	3,916.65	3,921.13	3,911.79	15.27	8.91	33.95	362.80	1,034.12	538.72	516.17	22.56	23.882	
4,100.00	4,012.35	4,017.66	4,008.20	15.71	8.92	35.22	367.37	1,034.86	515.37	492.53	22.85	22.559	
4,200.00	4,108.06	4,112.44	4,102.89	16.16	8.94	36.62	371.56	1,035.71	492.43	469.31	23.12	21.297	
4,300.00	4,203.76	4,206.40	4,196.78	16.61	8.95	38.21	375.10	1,036.99	470.27	446.91	23.36	20.129	
4,400.00	4,299.46	4,303.13	4,293.43	17.06	8.97	40.01	378.69	1,038.59	448.81	425.25	23.55	19.054	
4,500.00	4,395.16	4,400.27	4,390.50	17.51	8.99	42.03	382.01	1,040.07	427.72	404.01	23.71	18.037	
4,600.00	4,490.86	4,497.61	4,487.78	17.97	9.03	44.28	385.22	1,041.39	407.05	383.22	23.83	17.079	
4,700.00	4,586.56	4,597.08	4,587.20	18.43	9.11	46.85	388.33	1,042.22	386.60	362.70	23.91	16.172	
4,800.00	4,682.26	4,693.32	4,683.39	18.90	9.20	49.64	391.23	1,042.60	366.57	342.61	23.95	15.303	
4,900.00	4,777.96	4,789.65	4,779.67	19.36	9.30	52.75	394.10	1,042.98	347.50	323.56	23.94	14.517	
5,000.00	4,873.66	4,885.00	4,874.99	19.83	9.39	56.16	396.78	1,043.55	329.81	305.96	23.84	13.833	

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 602H
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 602H	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													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)			
5,100.00	4,969.37	4,981.96	4,971.91	20.30	9.49	59.99	399.51	1,044.15	313.48	289.81	23.66	13.247	
5,200.00	5,065.07	5,077.81	5,067.72	20.77	9.61	64.16	402.22	1,044.57	298.54	275.10	23.44	12.738	
5,300.00	5,160.77	5,173.28	5,163.16	21.25	9.73	68.78	404.44	1,044.91	285.62	262.46	23.16	12.333	
5,400.00	5,256.47	5,268.56	5,258.42	21.72	9.84	73.81	406.36	1,045.29	275.06	252.19	22.87	12.027	
5,500.00	5,352.17	5,358.00	5,347.85	22.20	9.86	78.95	406.72	1,046.29	268.52	245.93	22.59	11.886	
5,572.48	5,421.53	5,422.04	5,411.86	22.55	9.85	82.83	405.62	1,047.70	267.13	244.69	22.44	11.903	
5,600.00	5,447.87	5,446.65	5,436.46	22.68	9.85	84.33	404.97	1,048.43	267.33	244.91	22.41	11.927	
5,700.00	5,543.57	5,537.92	5,527.59	23.16	9.86	89.75	401.86	1,052.10	271.13	248.63	22.50	12.051	
5,800.00	5,639.27	5,631.05	5,620.50	23.64	9.83	94.92	398.03	1,057.21	279.02	256.21	22.81	12.232	
5,900.00	5,735.21	5,726.19	5,715.36	24.11	9.78	99.81	393.71	1,063.19	289.88	266.57	23.31	12.438	
6,000.00	5,832.02	5,820.90	5,809.73	24.65	9.73	103.75	389.10	1,069.74	302.44	278.54	23.90	12.657	
6,100.00	5,929.66	5,920.81	5,909.26	25.20	9.70	106.97	384.05	1,076.78	315.44	290.91	24.53	12.857	
6,200.00	6,027.98	6,023.23	6,011.42	25.73	9.68	109.64	379.48	1,082.38	327.09	301.90	25.19	12.986	
6,300.00	6,126.88	6,122.15	6,110.15	26.25	9.68	111.54	375.57	1,087.25	337.37	311.63	25.73	13.111	
6,400.00	6,226.24	6,222.51	6,210.32	26.74	9.69	112.82	371.70	1,092.08	346.46	320.26	26.20	13.226	
6,500.00	6,325.93	6,324.97	6,312.61	27.19	9.72	113.56	368.16	1,096.55	353.80	327.22	26.59	13.308	
6,600.00	6,425.83	6,430.11	6,417.67	27.59	9.79	113.82	365.84	1,100.18	358.36	331.45	26.92	13.314	
6,700.00	6,525.82	6,529.43	6,516.92	27.74	9.85	116.73	364.06	1,103.46	361.14	334.14	27.00	13.374	
6,800.00	6,625.82	6,629.77	6,617.19	27.77	9.91	118.30	362.19	1,106.61	363.60	336.57	27.04	13.448	
6,900.00	6,725.82	6,730.85	6,718.20	27.80	9.98	117.85	360.60	1,109.88	365.81	338.72	27.09	13.505	
7,000.00	6,825.82	6,830.93	6,818.23	27.84	10.06	117.47	359.15	1,112.73	367.83	340.69	27.15	13.550	
7,100.00	6,925.82	6,930.26	6,917.51	27.88	10.15	117.12	357.55	1,115.36	369.99	342.78	27.21	13.598	
7,200.00	7,025.82	7,030.35	7,017.55	27.92	10.25	116.76	355.86	1,118.17	372.27	344.99	27.28	13.644	
7,300.00	7,125.82	7,131.32	7,118.47	27.95	10.36	116.37	354.38	1,121.12	374.37	347.01	27.37	13.679	
7,400.00	7,225.82	7,231.38	7,218.48	27.99	10.47	116.04	353.05	1,123.68	376.28	348.82	27.46	13.704	
7,500.00	7,325.82	7,332.63	7,319.70	28.03	10.59	115.74	351.71	1,126.08	378.14	350.57	27.57	13.716	
7,600.00	7,425.82	7,432.69	7,419.73	28.07	10.72	115.44	350.70	1,128.37	379.68	352.01	27.67	13.720	
7,700.00	7,525.82	7,532.35	7,519.36	28.11	10.85	115.17	349.55	1,130.50	381.34	353.56	27.78	13.725	
7,800.00	7,625.82	7,632.00	7,618.99	28.15	10.98	114.94	348.29	1,132.47	383.08	355.17	27.91	13.727	
7,900.00	7,725.82	7,731.85	7,718.81	28.18	11.12	114.76	346.86	1,134.10	384.88	356.83	28.05	13.721	
8,000.00	7,825.82	7,832.95	7,819.89	28.22	11.27	114.55	345.59	1,135.91	386.57	358.37	28.20	13.708	
8,100.00	7,925.82	7,934.61	7,921.52	28.26	11.43	114.36	344.63	1,137.48	387.90	359.52	28.37	13.671	
8,200.00	8,025.82	8,035.87	8,022.77	28.30	11.62	114.24	343.94	1,138.54	388.84	360.25	28.58	13.603	
8,300.00	8,125.82	8,138.76	8,125.66	28.34	11.76	114.15	343.58	1,139.26	389.36	360.59	28.77	13.532	
8,400.00	8,225.82	8,240.72	8,227.63	28.38	11.82	114.10	344.03	1,139.46	388.99	360.10	28.89	13.466	
8,500.00	8,325.82	8,339.02	8,325.92	28.42	11.86	114.10	344.34	1,139.41	388.67	359.70	28.97	13.416	
8,503.98	8,329.80	8,342.89	8,329.80	28.42	11.86	114.10	344.35	1,139.41	388.67	359.69	28.98	13.414	
8,600.00	8,425.82	8,435.31	8,422.21	28.46	11.95	114.06	344.05	1,139.77	389.07	359.99	29.08	13.377	
8,700.00	8,525.82	8,530.59	8,517.48	28.50	12.09	113.91	342.95	1,141.17	390.58	361.38	29.20	13.375	
8,800.00	8,625.82	8,635.39	8,622.24	28.54	12.25	113.70	341.40	1,143.09	392.53	363.14	29.39	13.356	
8,900.00	8,725.82	8,742.85	8,729.69	28.58	12.38	113.51	341.86	1,144.29	392.43	362.88	29.55	13.279	
9,000.00	8,825.82	8,848.02	8,834.84	28.62	12.45	113.35	343.86	1,144.88	390.77	361.12	29.65	13.179	
9,100.00	8,925.82	8,955.36	8,942.12	28.66	12.54	113.21	347.48	1,144.76	387.51	357.67	29.84	12.988	
9,200.00	9,025.82	9,059.89	9,046.51	28.70	12.62	113.18	352.60	1,143.41	382.44	352.43	30.01	12.745	
9,300.00	9,125.82	9,155.29	9,141.80	28.75	12.63	113.17	357.12	1,142.14	377.52	347.47	30.05	12.563	
9,400.00	9,225.82	9,248.03	9,234.49	28.79	12.66	113.03	360.28	1,142.12	374.25	344.19	30.06	12.449	
9,500.00	9,325.82	9,342.50	9,328.94	28.83	12.75	112.84	361.94	1,142.88	372.80	342.70	30.10	12.385	
9,600.00	9,425.82	9,440.79	9,427.21	28.87	12.87	112.60	362.99	1,144.24	372.19	342.02	30.17	12.336	
9,676.24	9,502.06	9,515.65	9,502.06	28.90	12.96	112.46	363.40	1,145.05	372.04	341.80	30.24	12.303	
9,700.00	9,525.82	9,538.78	9,525.20	28.91	12.98	112.44	363.41	1,145.15	372.06	341.79	30.27	12.291	
9,800.00	9,625.82	9,637.18	9,623.58	28.95	13.04	112.59	362.68	1,144.41	372.54	342.08	30.46	12.230	
9,900.00	9,725.82	9,740.66	9,727.05	29.00	13.04	112.86	361.78	1,142.82	372.92	342.21	30.71	12.144	

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 602H
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 602H	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												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	9,825.82	9,847.42	9,833.79	29.04	13.00	163.10	362.66	1,140.90	371.60	340.68	30.92	12.020	
10,100.00	9,925.82	9,945.94	9,932.27	29.08	12.99	163.27	364.52	1,139.21	369.30	338.26	31.04	11.897	
10,200.00	10,025.82	10,041.24	10,027.57	29.12	13.02	163.27	365.49	1,138.91	368.24	337.11	31.13	11.830	
10,300.00	10,125.82	10,143.76	10,130.09	29.17	13.06	163.25	366.02	1,138.91	367.75	336.48	31.26	11.762	
10,400.00	10,225.82	10,245.92	10,232.23	29.21	13.10	163.20	367.68	1,138.75	366.15	334.75	31.40	11.662	
10,500.00	10,325.82	10,345.35	10,331.65	29.25	13.12	163.27	369.18	1,137.84	364.44	332.92	31.51	11.565	
10,600.00	10,425.82	10,444.35	10,430.63	29.30	13.11	163.44	370.25	1,136.36	362.97	331.32	31.65	11.468	
10,700.00	10,525.82	10,547.26	10,533.50	29.34	13.09	163.73	371.39	1,134.10	361.30	329.45	31.85	11.345	
10,800.00	10,625.82	10,644.01	10,630.22	29.38	13.08	164.04	372.42	1,131.81	359.62	327.63	31.99	11.242	
10,900.00	10,725.82	10,746.80	10,732.98	29.43	13.08	164.37	373.51	1,129.32	357.93	325.73	32.20	11.115	
11,000.00	10,825.82	10,843.80	10,829.95	29.47	13.16	164.35	375.13	1,129.04	356.25	323.92	32.33	11.018	
11,100.00	10,925.82	10,936.73	10,922.87	29.49	13.26	-15.64	375.47	1,130.37	355.97	323.56	32.41	10.983	
11,200.00	11,024.97	11,050.09	11,036.22	29.36	14.34	-16.60	375.85	1,130.14	344.21	311.00	33.21	10.364	
11,300.00	11,120.54	11,180.77	11,166.25	29.21	18.87	-20.64	387.98	1,129.07	307.84	271.71	36.13	8.521	
11,400.00	11,209.63	11,309.60	11,290.88	29.03	19.95	-33.65	419.50	1,125.86	245.38	207.26	38.12	6.437	
11,500.00	11,289.52	11,378.35	11,354.59	28.85	20.02	-59.11	444.66	1,120.22	167.06	128.87	38.18	4.375	
11,600.00	11,357.78	11,413.77	11,386.59	28.68	20.06	-88.64	459.38	1,116.48	95.99	56.11	39.88	2.407	
11,650.13	11,386.97	11,421.83	11,393.77	28.61	20.06	-95.68	462.95	1,115.66	82.03	36.42	45.61	1.798	Collision Risk Procedures Req., CC, ES
11,700.00	11,412.36	11,424.91	11,396.50	28.55	20.07	-96.30	464.33	1,115.35	96.12	46.65	49.47	1.943	Collision Risk Procedures Req.
11,800.00	11,451.58	11,419.45	11,391.65	28.46	20.06	-80.30	461.88	1,115.90	171.38	122.85	48.53	3.531	
11,900.00	11,474.25	11,402.49	11,376.47	28.44	20.04	-52.31	454.53	1,117.65	261.80	214.67	47.13	5.555	
12,000.00	11,480.00	11,376.06	11,352.51	28.48	20.01	-34.10	443.75	1,120.46	352.39	306.12	46.27	7.616	
12,100.00	11,480.00	11,347.63	11,326.36	28.56	19.98	-30.08	432.91	1,123.15	443.23	397.52	45.70	9.698	
12,200.00	11,480.00	11,321.35	11,301.90	28.65	19.96	-27.06	423.52	1,125.18	535.46	490.18	45.28	11.825	
12,300.00	11,480.00	11,293.00	11,275.23	28.76	19.93	-24.27	414.01	1,126.58	628.70	583.67	45.03	13.963	
12,400.00	11,480.00	11,293.00	11,275.23	28.88	19.93	-24.27	414.01	1,126.58	722.98	678.59	44.39	16.287	
12,500.00	11,480.00	11,269.13	11,252.50	29.02	19.92	-22.25	406.77	1,127.38	817.77	773.54	44.23	18.489	
12,600.00	11,480.00	11,246.00	11,230.20	29.17	19.90	-20.58	400.68	1,128.09	913.69	869.59	44.10	20.717	
12,700.00	11,480.00	11,246.00	11,230.20	29.33	19.90	-20.58	400.68	1,128.09	1,009.75	965.99	43.76	23.075	
12,800.00	11,480.00	11,246.00	11,230.20	29.51	19.90	-20.58	400.68	1,128.09	1,106.51	1,063.03	43.49	25.446	
12,900.00	11,480.00	11,246.00	11,230.20	29.69	19.90	-20.58	400.68	1,128.09	1,203.81	1,160.54	43.26	27.825	
13,000.00	11,480.00	11,224.26	11,209.03	29.90	19.72	-19.19	395.75	1,128.62	1,300.96	1,257.80	43.16	30.144	
13,100.00	11,480.00	11,217.61	11,202.52	30.11	19.67	-18.79	394.39	1,128.74	1,398.62	1,355.61	43.02	32.514	
13,200.00	11,480.00	11,199.00	11,184.24	30.34	19.51	-17.74	390.94	1,128.95	1,496.68	1,453.76	42.92	34.868	
13,300.00	11,480.00	11,199.00	11,184.24	30.58	19.51	-17.74	390.94	1,128.95	1,594.64	1,551.84	42.80	37.257	
13,400.00	11,480.00	11,199.00	11,184.24	30.84	19.51	-17.74	390.94	1,128.95	1,692.84	1,650.14	42.70	39.646	
13,500.00	11,480.00	11,199.00	11,184.24	31.11	19.51	-17.74	390.94	1,128.95	1,791.24	1,748.62	42.61	42.034	
13,600.00	11,480.00	11,199.00	11,184.24	31.39	19.51	-17.74	390.94	1,128.95	1,889.80	1,847.26	42.54	44.419	
13,700.00	11,480.00	11,199.00	11,184.24	31.68	19.51	-17.74	390.94	1,128.95	1,988.51	1,946.02	42.49	46.802	
13,800.00	11,480.00	11,199.00	11,184.24	31.99	19.51	-17.74	390.94	1,128.95	2,087.34	2,044.90	42.44	49.182	

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 602H
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 602H	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:				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		
18,900.00	11,480.00	11,423.43	11,480.00	59.84	196.93	-90.00	-8,666.07	1,843.15	2,046.00	1,821.79	224.21	9.126			
19,000.00	11,480.00	11,423.43	11,480.00	60.52	196.93	-90.00	-8,666.07	1,843.15	1,953.69	1,728.78	224.91	8.686			
19,100.00	11,480.00	11,423.43	11,480.00	61.20	196.93	-90.00	-8,666.07	1,843.15	1,862.19	1,636.46	225.73	8.250			
19,200.00	11,480.00	11,423.43	11,480.00	61.88	196.93	-90.00	-8,666.07	1,843.15	1,771.59	1,544.93	226.66	7.816			
19,300.00	11,480.00	11,423.43	11,480.00	62.57	196.93	-90.00	-8,666.07	1,843.15	1,682.07	1,454.33	227.74	7.386			
19,400.00	11,480.00	11,423.43	11,480.00	63.26	196.93	-90.00	-8,666.07	1,843.15	1,593.79	1,364.81	228.99	6.960			
19,500.00	11,480.00	11,423.43	11,480.00	63.95	196.93	-90.00	-8,666.07	1,843.15	1,506.98	1,276.55	230.43	6.540			
19,600.00	11,480.00	11,423.43	11,480.00	64.64	196.93	-90.00	-8,666.07	1,843.15	1,421.90	1,189.81	232.09	6.126			
19,700.00	11,480.00	11,423.43	11,480.00	65.33	196.93	-90.00	-8,666.07	1,843.15	1,338.88	1,104.87	234.01	5.721			
19,800.00	11,480.00	11,423.43	11,480.00	66.03	196.93	-90.00	-8,666.07	1,843.15	1,258.34	1,022.11	236.23	5.327			
19,900.00	11,480.00	11,423.43	11,480.00	66.73	196.93	-90.00	-8,666.07	1,843.15	1,180.78	942.02	238.76	4.945			
20,000.00	11,480.00	11,423.43	11,480.00	67.42	196.93	-90.00	-8,666.07	1,843.15	1,106.82	865.18	241.64	4.580			
20,100.00	11,480.00	11,423.43	11,480.00	68.13	196.93	-90.00	-8,666.07	1,843.15	1,037.24	792.35	244.89	4.236			
20,200.00	11,480.00	11,423.43	11,480.00	68.83	196.93	-90.00	-8,666.07	1,843.15	972.97	724.50	248.47	3.916			
20,300.00	11,480.00	11,423.43	11,480.00	69.53	196.93	-90.00	-8,666.07	1,843.15	915.14	662.79	252.35	3.626			
20,400.00	11,480.00	11,423.43	11,480.00	70.24	196.93	-90.00	-8,666.07	1,843.15	865.04	608.65	256.39	3.374			
20,500.00	11,480.00	11,423.43	11,480.00	70.94	196.93	-90.00	-8,666.07	1,843.15	824.08	563.67	260.41	3.165			
20,600.00	11,480.00	11,423.43	11,480.00	71.65	196.93	-90.00	-8,666.07	1,843.15	793.68	529.54	264.13	3.005			
20,700.00	11,480.00	11,423.43	11,480.00	72.36	196.93	-90.00	-8,666.07	1,843.15	775.07	507.82	267.26	2.900			
20,795.93	11,480.00	11,423.43	11,480.00	73.04	196.93	-90.00	-8,666.07	1,843.15	769.11	499.68	269.43	2.855 CC			
20,800.00	11,480.00	11,423.43	11,480.00	73.07	196.93	-90.00	-8,666.07	1,843.15	769.12	499.62	269.50	2.854 ES, SF			
20,900.00	11,480.00	11,423.43	11,480.00	73.78	196.93	-90.00	-8,666.07	1,843.15	776.12	505.41	270.71	2.867			
21,000.00	11,480.00	11,423.43	11,480.00	74.50	196.93	-90.00	-8,666.07	1,843.15	795.72	524.85	270.87	2.938			
21,100.00	11,480.00	11,423.43	11,480.00	75.21	196.93	-90.00	-8,666.07	1,843.15	827.03	556.91	270.13	3.062			
21,200.00	11,480.00	11,423.43	11,480.00	75.93	196.93	-90.00	-8,666.07	1,843.15	868.79	600.10	268.69	3.233			
21,300.00	11,480.00	11,423.43	11,480.00	76.65	196.93	-90.00	-8,666.07	1,843.15	919.57	652.75	266.82	3.446			
21,400.00	11,480.00	11,423.43	11,480.00	77.36	196.93	-90.00	-8,666.07	1,843.15	977.97	713.24	264.73	3.694			
21,500.00	11,480.00	11,423.43	11,480.00	78.08	196.93	-90.00	-8,666.07	1,843.15	1,042.71	780.15	262.56	3.971			
21,600.00	11,480.00	11,423.43	11,480.00	78.80	196.93	-90.00	-8,666.07	1,843.15	1,112.68	852.25	260.43	4.272			
21,700.00	11,480.00	11,423.43	11,480.00	79.52	196.93	-90.00	-8,666.07	1,843.15	1,186.95	928.55	258.40	4.593			
21,800.00	11,480.00	11,423.43	11,480.00	80.25	196.93	-90.00	-8,666.07	1,843.15	1,264.78	1,008.27	256.52	4.931			
21,900.00	11,480.00	11,423.43	11,480.00	80.97	196.93	-90.00	-8,666.07	1,843.15	1,345.54	1,090.76	254.78	5.281			
22,000.00	11,480.00	11,423.43	11,480.00	81.69	196.93	-90.00	-8,666.07	1,843.15	1,428.74	1,175.54	253.20	5.643			
22,100.00	11,480.00	11,423.43	11,480.00	82.42	196.93	-90.00	-8,666.07	1,843.15	1,513.97	1,262.20	251.77	6.013			
22,200.00	11,480.00	11,423.43	11,480.00	83.14	196.93	-90.00	-8,666.07	1,843.15	1,600.91	1,350.44	250.48	6.391			
22,300.00	11,480.00	11,423.43	11,480.00	83.87	196.93	-90.00	-8,666.07	1,843.15	1,689.30	1,439.99	249.31	6.776			
22,400.00	11,480.00	11,423.43	11,480.00	84.60	196.93	-90.00	-8,666.07	1,843.15	1,778.92	1,530.65	248.26	7.165			
22,436.41	11,480.00	11,423.43	11,480.00	84.86	196.93	-90.00	-8,666.07	1,843.15	1,811.82	1,563.91	247.91	7.308			

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 602H
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 602H	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				Reference		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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,200.00	11,480.00	11,455.43	11,480.00	30.34	197.50	90.00	-3,066.09	474.95	2,071.29	1,847.98	223.31	9.276			
13,300.00	11,480.00	11,455.43	11,480.00	30.58	197.50	90.00	-3,066.09	474.95	1,975.41	1,751.85	223.56	8.836			
13,400.00	11,480.00	11,455.43	11,480.00	30.84	197.50	90.00	-3,066.09	474.95	1,879.95	1,656.12	223.84	8.399			
13,500.00	11,480.00	11,455.43	11,480.00	31.11	197.50	90.00	-3,066.09	474.95	1,785.00	1,560.86	224.14	7.964			
13,600.00	11,480.00	11,455.43	11,480.00	31.39	197.50	90.00	-3,066.09	474.95	1,690.63	1,466.15	224.48	7.531			
13,700.00	11,480.00	11,455.43	11,480.00	31.68	197.50	90.00	-3,066.09	474.95	1,596.94	1,372.08	224.86	7.102			
13,800.00	11,480.00	11,455.43	11,480.00	31.99	197.50	90.00	-3,066.09	474.95	1,504.07	1,278.79	225.28	6.677			
13,900.00	11,480.00	11,455.43	11,480.00	32.31	197.50	90.00	-3,066.09	474.95	1,412.17	1,186.43	225.74	6.256			
14,000.00	11,480.00	11,455.43	11,480.00	32.65	197.50	90.00	-3,066.09	474.95	1,321.45	1,095.18	226.27	5.840			
14,100.00	11,480.00	11,455.43	11,480.00	32.99	197.50	90.00	-3,066.09	474.95	1,232.16	1,005.31	226.85	5.432			
14,200.00	11,480.00	11,455.43	11,480.00	33.35	197.50	90.00	-3,066.09	474.95	1,144.65	917.13	227.51	5.031			
14,300.00	11,480.00	11,455.43	11,480.00	33.73	197.50	90.00	-3,066.09	474.95	1,059.35	831.09	228.25	4.641			
14,400.00	11,480.00	11,455.43	11,480.00	34.11	197.50	90.00	-3,066.09	474.95	976.84	747.76	229.08	4.264			
14,500.00	11,480.00	11,455.43	11,480.00	34.51	197.50	90.00	-3,066.09	474.95	897.89	667.91	229.98	3.904			
14,600.00	11,480.00	11,455.43	11,480.00	34.91	197.50	90.00	-3,066.09	474.95	823.53	592.57	230.96	3.566			
14,700.00	11,480.00	11,455.43	11,480.00	35.33	197.50	90.00	-3,066.09	474.95	755.12	523.15	231.97	3.255			
14,800.00	11,480.00	11,455.43	11,480.00	35.76	197.50	90.00	-3,066.09	474.95	694.41	461.49	232.92	2.981			
14,900.00	11,480.00	11,455.43	11,480.00	36.21	197.50	90.00	-3,066.09	474.95	643.59	409.91	233.68	2.754			
15,000.00	11,480.00	11,455.43	11,480.00	36.66	197.50	90.00	-3,066.09	474.95	605.15	371.10	234.05	2.586			
15,100.00	11,480.00	11,455.43	11,480.00	37.12	197.50	90.00	-3,066.09	474.95	581.55	347.73	233.82	2.487			
15,190.01	11,480.00	11,455.43	11,480.00	37.55	197.50	90.00	-3,066.09	474.95	574.54	341.54	233.00	2.466	CC, ES, SF		
15,200.00	11,480.00	11,455.43	11,480.00	37.60	197.50	90.00	-3,066.09	474.95	574.63	341.75	232.88	2.468			
15,300.00	11,480.00	11,455.43	11,480.00	38.08	197.50	90.00	-3,066.09	474.95	584.98	353.69	231.29	2.529			
15,400.00	11,480.00	11,455.43	11,480.00	38.57	197.50	90.00	-3,066.09	474.95	611.72	382.42	229.30	2.668			
15,500.00	11,480.00	11,455.43	11,480.00	39.07	197.50	90.00	-3,066.09	474.95	652.84	425.60	227.24	2.873			
15,600.00	11,480.00	11,455.43	11,480.00	39.59	197.50	90.00	-3,066.09	474.95	705.83	480.49	225.34	3.132			
15,700.00	11,480.00	11,455.43	11,480.00	40.11	197.50	90.00	-3,066.09	474.95	768.24	544.49	223.75	3.434			
15,800.00	11,480.00	11,455.43	11,480.00	40.63	197.50	90.00	-3,066.09	474.95	837.97	615.48	222.48	3.766			
15,900.00	11,480.00	11,455.43	11,480.00	41.17	197.50	90.00	-3,066.09	474.95	913.34	691.81	221.53	4.123			
16,000.00	11,480.00	11,455.43	11,480.00	41.71	197.50	90.00	-3,066.09	474.95	993.07	772.24	220.82	4.497			
16,100.00	11,480.00	11,455.43	11,480.00	42.27	197.50	90.00	-3,066.09	474.95	1,076.19	855.86	220.33	4.884			
16,200.00	11,480.00	11,455.43	11,480.00	42.82	197.50	90.00	-3,066.09	474.95	1,161.97	941.98	219.99	5.282			
16,300.00	11,480.00	11,455.43	11,480.00	43.39	197.50	90.00	-3,066.09	474.95	1,249.87	1,030.10	219.77	5.687			
16,400.00	11,480.00	11,455.43	11,480.00	43.96	197.50	90.00	-3,066.09	474.95	1,339.47	1,119.83	219.64	6.098			
16,500.00	11,480.00	11,455.43	11,480.00	44.54	197.50	90.00	-3,066.09	474.95	1,430.45	1,210.87	219.58	6.514			
16,600.00	11,480.00	11,455.43	11,480.00	45.13	197.50	90.00	-3,066.09	474.95	1,522.56	1,302.99	219.57	6.934			
16,700.00	11,480.00	11,455.43	11,480.00	45.72	197.50	90.00	-3,066.09	474.95	1,615.60	1,396.01	219.60	7.357			
16,800.00	11,480.00	11,455.43	11,480.00	46.31	197.50	90.00	-3,066.09	474.95	1,709.44	1,489.79	219.65	7.783			
16,900.00	11,480.00	11,455.43	11,480.00	46.92	197.50	90.00	-3,066.09	474.95	1,803.93	1,584.21	219.73	8.210			
17,000.00	11,480.00	11,455.43	11,480.00	47.52	197.50	90.00	-3,066.09	474.95	1,898.99	1,679.17	219.82	8.639			
17,100.00	11,480.00	11,455.43	11,480.00	48.14	197.50	90.00	-3,066.09	474.95	1,994.54	1,774.61	219.92	9.069			
17,200.00	11,480.00	11,455.43	11,480.00	48.75	197.50	90.00	-3,066.09	474.95	2,090.49	1,870.46	220.04	9.501			

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 602H
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 602H	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		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	78.69	40.00	200.00	203.96				
100.00	100.00	100.00	100.00	0.66	0.66	78.69	40.00	200.00	203.96	202.64	1.32	154.847	
200.00	200.00	200.00	200.00	1.35	1.35	78.69	40.00	200.00	203.96	201.26	2.70	75.619	
300.00	300.00	300.00	300.00	1.82	1.82	78.69	40.00	200.00	203.96	200.33	3.63	56.123	
400.00	400.00	400.00	400.00	2.19	2.19	78.69	40.00	200.00	203.96	199.58	4.38	46.557	
500.00	500.00	500.00	500.00	2.51	2.51	78.69	40.00	200.00	203.96	198.94	5.02	40.605	
600.00	600.00	600.00	600.00	2.80	2.80	78.69	40.00	200.00	203.96	198.36	5.60	36.443	
700.00	700.00	700.00	700.00	3.06	3.06	78.69	40.00	200.00	203.96	197.84	6.12	33.321	
800.00	800.00	800.00	800.00	3.30	3.30	78.69	40.00	200.00	203.96	197.35	6.61	30.866	
900.00	900.00	900.00	900.00	3.53	3.53	78.69	40.00	200.00	203.96	196.90	7.07	28.868	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	78.69	40.00	200.00	203.96	196.46	7.50	27.201	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	78.69	40.00	200.00	203.96	196.05	7.91	25.783	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	78.69	40.00	200.00	203.96	195.65	8.31	24.555	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	78.69	40.00	200.00	203.96	195.27	8.69	23.480	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	78.69	40.00	200.00	203.96	194.91	9.05	22.527	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	78.69	40.00	200.00	203.96	194.55	9.41	21.675	
1,600.00	1,599.98	1,596.91	1,596.89	5.03	5.05	23.28	41.58	200.43	203.12	193.23	9.89	20.547	
1,700.00	1,699.84	1,693.75	1,693.60	5.67	5.66	22.62	46.32	201.71	200.60	189.87	10.72	18.704	
1,800.00	1,799.45	1,790.43	1,789.94	6.27	6.25	21.48	54.20	203.84	196.47	184.92	11.56	17.003	
1,900.00	1,898.70	1,886.89	1,885.71	6.84	6.80	19.81	65.18	206.81	190.85	178.45	12.40	15.387	
2,000.00	1,997.47	1,983.04	1,980.76	7.39	7.32	17.51	79.22	210.61	183.90	170.61	13.28	13.842	
2,100.00	2,095.62	2,081.79	2,078.03	7.93	7.56	14.71	95.62	215.05	175.15	161.03	14.12	12.405	
2,200.00	2,193.06	2,180.73	2,175.49	8.46	7.80	11.85	112.08	219.50	163.50	148.52	14.98	10.915	
2,300.00	2,289.64	2,279.29	2,272.57	8.99	8.05	8.75	128.47	223.94	148.91	133.04	15.87	9.381	
2,400.00	2,385.44	2,377.43	2,369.25	9.25	8.32	5.06	144.80	228.36	131.98	115.44	16.54	7.981	
2,500.00	2,481.14	2,475.53	2,465.88	9.52	8.61	0.30	161.12	232.77	115.43	98.16	17.27	6.684	
2,600.00	2,576.84	2,573.62	2,562.51	9.83	8.91	-5.98	177.44	237.19	99.92	81.86	18.06	5.531	
2,700.00	2,672.54	2,671.72	2,659.14	10.15	9.22	-14.37	193.76	241.61	86.02	67.18	18.84	4.565	
2,800.00	2,768.24	2,769.82	2,755.76	10.48	9.54	-25.56	210.08	246.02	74.62	55.21	19.41	3.844	
2,900.00	2,863.94	2,867.91	2,852.39	10.83	9.87	-39.89	226.40	250.44	67.02	47.59	19.44	3.448	
2,992.67	2,952.63	2,958.82	2,941.94	11.17	10.18	-55.18	241.52	254.53	64.56	45.83	18.73	3.446 CC, ES, SF	
3,000.00	2,959.64	2,966.01	2,949.02	11.19	10.21	-56.42	242.71	254.85	64.58	45.92	18.65	3.462	
3,100.00	3,055.34	3,064.10	3,045.65	11.56	10.56	-72.76	259.03	259.27	67.84	50.40	17.45	3.888	
3,200.00	3,151.04	3,162.20	3,142.27	11.95	10.91	-86.64	275.35	263.69	76.09	59.48	16.61	4.582	
3,300.00	3,246.75	3,260.29	3,238.90	12.34	11.27	-97.39	291.67	268.10	87.93	71.53	16.39	5.363	
3,400.00	3,342.45	3,358.39	3,335.53	12.74	11.64	-105.43	307.99	272.52	102.11	85.50	16.62	6.145	
3,500.00	3,438.15	3,456.49	3,432.16	13.14	12.01	-111.44	324.31	276.93	117.80	100.74	17.07	6.903	
3,600.00	3,533.85	3,554.58	3,528.79	13.56	12.39	-116.02	340.63	281.35	134.47	116.85	17.62	7.633	
3,700.00	3,629.55	3,652.68	3,625.41	13.98	12.77	-119.59	356.95	285.77	151.80	133.58	18.21	8.334	
3,800.00	3,725.25	3,750.77	3,722.04	14.41	13.16	-122.41	373.27	290.18	169.58	150.75	18.83	9.005	
3,900.00	3,820.95	3,848.87	3,818.67	14.84	13.55	-124.70	389.59	294.60	187.68	168.23	19.45	9.648	
4,000.00	3,916.65	3,946.96	3,915.30	15.27	13.94	-126.59	405.91	299.01	206.03	185.95	20.07	10.263	
4,100.00	4,012.35	4,045.06	4,011.93	15.71	14.34	-128.17	422.23	303.43	224.55	203.86	20.70	10.850	
4,200.00	4,108.06	4,143.16	4,108.55	16.16	14.74	-129.51	438.55	307.85	243.22	221.91	21.32	11.411	
4,300.00	4,203.76	4,241.25	4,205.18	16.61	15.14	-130.65	454.86	312.26	262.00	240.07	21.93	11.946	
4,400.00	4,299.46	4,339.35	4,301.81	17.06	15.55	-131.65	471.18	316.68	280.86	258.32	22.55	12.457	
4,500.00	4,395.16	4,437.44	4,398.44	17.51	15.95	-132.51	487.50	321.09	299.80	276.64	23.16	12.945	
4,600.00	4,490.86	4,535.54	4,495.06	17.97	16.36	-133.28	503.82	325.51	318.79	295.02	23.77	13.412	
4,700.00	4,586.56	4,633.63	4,591.69	18.43	16.77	-133.96	520.14	329.93	337.83	313.46	24.38	13.858	
4,800.00	4,682.26	4,731.73	4,688.32	18.90	17.19	-134.56	536.46	334.34	356.92	331.93	24.99	14.284	
4,900.00	4,777.96	4,829.83	4,784.95	19.36	17.60	-135.11	552.78	338.76	376.04	350.44	25.60	14.692	
5,000.00	4,873.66	4,927.92	4,881.58	19.83	18.02	-135.60	569.10	343.17	395.19	368.98	26.20	15.082	

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 602H
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 602H	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
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	
5,100.00	4,969.37	5,026.02	4,978.20	20.30	18.44	-136.05	585.42	347.59	414.36	387.55	26.81	15.456	
5,200.00	5,065.07	5,124.11	5,074.83	20.77	18.85	-136.46	601.74	352.01	433.56	406.14	27.42	15.814	
5,300.00	5,160.77	5,222.21	5,171.46	21.25	19.27	-136.83	618.06	356.42	452.77	424.75	28.02	16.158	
5,400.00	5,256.47	5,320.30	5,268.09	21.72	19.70	-137.17	634.38	360.84	472.00	443.38	28.63	16.488	
5,500.00	5,352.17	5,418.40	5,364.72	22.20	20.12	-137.49	650.69	365.25	491.25	462.02	29.23	16.804	
5,600.00	5,447.87	5,516.50	5,461.34	22.68	20.54	-137.78	667.01	369.67	510.51	480.68	29.84	17.111	
5,700.00	5,543.57	5,613.10	5,556.58	23.16	20.95	-138.09	682.65	373.90	529.86	499.44	30.41	17.422	
5,800.00	5,639.27	5,708.03	5,650.59	23.64	21.39	-138.68	695.33	377.33	549.70	518.62	31.08	17.688	
5,900.00	5,735.21	5,802.46	5,744.49	24.11	21.87	-139.66	704.96	379.94	569.57	537.77	31.79	17.915	
6,000.00	5,832.02	5,896.80	5,838.57	24.65	22.31	-140.75	711.59	381.73	587.66	555.09	32.57	18.043	
6,100.00	5,929.66	5,990.99	5,932.68	25.20	22.71	-141.84	715.22	382.71	603.86	570.50	33.37	18.098	
6,200.00	6,027.98	6,086.29	6,027.98	25.73	22.86	-142.94	715.98	382.92	618.18	584.06	34.12	18.117	
6,300.00	6,126.88	6,185.19	6,126.88	26.25	22.90	-143.89	715.98	382.92	630.07	595.21	34.86	18.074	
6,400.00	6,226.24	6,284.55	6,226.24	26.74	22.95	-144.59	715.98	382.92	639.26	603.73	35.53	17.992	
6,500.00	6,325.93	6,384.24	6,325.93	27.19	23.00	-145.06	715.98	382.92	645.65	609.54	36.11	17.879	
6,600.00	6,425.83	6,484.14	6,425.83	27.59	23.05	-145.32	715.98	382.92	649.21	612.61	36.60	17.739	
6,700.00	6,525.82	6,584.13	6,525.82	27.74	23.10	-90.19	715.98	382.92	650.00	613.20	36.81	17.660	
6,800.00	6,625.82	6,684.13	6,625.82	27.77	23.15	-90.19	715.98	382.92	650.00	613.08	36.93	17.603	
6,900.00	6,725.82	6,784.13	6,725.82	27.80	23.20	-90.19	715.98	382.92	650.00	612.95	37.05	17.544	
7,000.00	6,825.82	6,884.13	6,825.82	27.84	23.25	-90.19	715.98	382.92	650.00	612.83	37.17	17.485	
7,100.00	6,925.82	6,984.13	6,925.82	27.88	23.30	-90.19	715.98	382.92	650.00	612.70	37.30	17.427	
7,200.00	7,025.82	7,084.13	7,025.82	27.92	23.35	-90.19	715.98	382.92	650.00	612.58	37.42	17.369	
7,300.00	7,125.82	7,184.13	7,125.82	27.95	23.40	-90.19	715.98	382.92	650.00	612.45	37.55	17.311	
7,400.00	7,225.82	7,284.13	7,225.82	27.99	23.45	-90.19	715.98	382.92	650.00	612.33	37.67	17.254	
7,500.00	7,325.82	7,384.13	7,325.82	28.03	23.50	-90.19	715.98	382.92	650.00	612.20	37.80	17.196	
7,600.00	7,425.82	7,484.13	7,425.82	28.07	23.55	-90.19	715.98	382.92	650.00	612.08	37.92	17.139	
7,700.00	7,525.82	7,584.13	7,525.82	28.11	23.60	-90.19	715.98	382.92	650.00	611.95	38.05	17.083	
7,800.00	7,625.82	7,684.13	7,625.82	28.15	23.66	-90.19	715.98	382.92	650.00	611.83	38.18	17.027	
7,900.00	7,725.82	7,784.13	7,725.82	28.18	23.71	-90.19	715.98	382.92	650.00	611.70	38.30	16.971	
8,000.00	7,825.82	7,884.13	7,825.82	28.22	23.76	-90.19	715.98	382.92	650.00	611.58	38.43	16.915	
8,100.00	7,925.82	7,984.13	7,925.82	28.26	23.81	-90.19	715.98	382.92	650.00	611.45	38.55	16.860	
8,200.00	8,025.82	8,084.13	8,025.82	28.30	23.86	-90.19	715.98	382.92	650.00	611.32	38.68	16.804	
8,300.00	8,125.82	8,184.13	8,125.82	28.34	23.92	-90.19	715.98	382.92	650.00	611.20	38.81	16.750	
8,400.00	8,225.82	8,284.13	8,225.82	28.38	23.97	-90.19	715.98	382.92	650.00	611.07	38.93	16.695	
8,500.00	8,325.82	8,384.13	8,325.82	28.42	24.02	-90.19	715.98	382.92	650.00	610.94	39.06	16.641	
8,600.00	8,425.82	8,484.13	8,425.82	28.46	24.07	-90.19	715.98	382.92	650.00	610.82	39.19	16.587	
8,700.00	8,525.82	8,584.13	8,525.82	28.50	24.13	-90.19	715.98	382.92	650.00	610.69	39.32	16.533	
8,800.00	8,625.82	8,684.13	8,625.82	28.54	24.18	-90.19	715.98	382.92	650.00	610.56	39.44	16.480	
8,900.00	8,725.82	8,784.13	8,725.82	28.58	24.23	-90.19	715.98	382.92	650.00	610.43	39.57	16.426	
9,000.00	8,825.82	8,890.89	8,832.53	28.62	24.20	-90.35	714.19	383.17	649.80	610.04	39.76	16.343	
9,100.00	8,925.82	9,004.45	8,944.10	28.66	24.14	-92.12	694.24	385.90	647.72	607.29	40.43	16.021	
9,200.00	9,025.82	9,106.60	9,039.33	28.70	24.03	-95.35	657.99	390.86	645.01	603.64	41.36	15.593	
9,263.26	9,089.08	9,163.48	9,089.08	28.73	23.95	-97.80	630.70	394.60	644.28	602.33	41.95	15.357	
9,300.00	9,125.82	9,193.66	9,114.29	28.75	23.91	-99.27	614.28	396.85	644.60	602.34	42.26	15.253	
9,400.00	9,225.82	9,265.60	9,170.61	28.79	23.80	-103.23	570.01	402.92	649.54	606.67	42.86	15.154	
9,500.00	9,325.82	9,324.32	9,212.14	28.83	23.71	-106.86	528.92	408.54	662.25	619.20	43.05	15.384	
9,600.00	9,425.82	9,372.20	9,242.72	28.87	23.64	-110.02	492.43	413.54	684.18	641.36	42.82	15.978	
9,700.00	9,525.82	9,411.49	9,265.45	28.91	23.58	-112.71	460.69	417.89	715.77	673.49	42.28	16.929	
9,800.00	9,625.82	9,450.00	9,285.54	28.95	23.52	-115.40	428.15	422.35	756.76	715.05	41.71	18.144	
9,900.00	9,725.82	9,471.22	9,295.66	29.00	23.50	-116.90	409.67	424.88	806.16	765.31	40.85	19.735	
10,000.00	9,825.82	9,500.00	9,308.26	29.04	23.46	-118.93	384.04	428.39	863.10	822.82	40.28	21.426	
10,100.00	9,925.82	9,513.86	9,313.87	29.08	23.44	-119.90	371.48	430.11	926.30	886.66	39.65	23.364	

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 602H
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 602H	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			Offset Wellbore Centre		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	
10,200.00	10,025.82	9,530.79	9,320.29	29.12	23.43	-121.09	355.97	432.24	994.87	955.62	39.25	25.346	
10,300.00	10,125.82	9,550.00	9,327.02	29.17	23.40	-122.42	338.14	434.68	1,067.89	1,028.84	39.05	27.348	
10,400.00	10,225.82	9,550.00	9,327.02	29.21	23.40	-122.42	338.14	434.68	1,144.61	1,105.82	38.80	29.502	
10,500.00	10,325.82	9,569.77	9,333.31	29.25	23.39	-123.79	319.57	437.22	1,224.25	1,185.39	38.87	31.498	
10,600.00	10,425.82	9,579.88	9,336.27	29.30	23.38	-124.48	309.99	438.53	1,306.52	1,267.57	38.95	33.543	
10,700.00	10,525.82	9,600.00	9,341.66	29.34	23.36	-125.84	290.79	441.16	1,391.06	1,351.87	39.18	35.502	
10,800.00	10,625.82	9,600.00	9,341.66	29.38	23.36	-125.84	290.79	441.16	1,477.11	1,437.77	39.34	37.544	
10,900.00	10,725.82	9,600.00	9,341.66	29.43	23.36	-125.84	290.79	441.16	1,564.83	1,525.27	39.56	39.551	
11,000.00	10,825.82	9,600.00	9,341.66	29.47	23.36	-125.84	290.79	441.16	1,653.94	1,614.11	39.83	41.524	
11,100.00	10,925.82	9,600.00	9,341.66	29.49	23.36	51.27	290.79	441.16	1,744.16	1,704.03	40.13	43.466	
11,200.00	11,024.97	9,625.59	9,347.53	29.36	23.34	37.37	266.12	444.54	1,831.24	1,790.69	40.56	45.154	
11,300.00	11,120.54	9,650.00	9,352.08	29.21	23.33	28.99	242.36	447.80	1,912.81	1,871.80	41.01	46.645	
11,400.00	11,209.63	9,650.00	9,352.08	29.03	23.33	24.15	242.36	447.80	1,986.17	1,944.79	41.39	47.989	
11,500.00	11,289.52	9,650.00	9,352.08	28.85	23.33	20.91	242.36	447.80	2,050.68	2,008.86	41.82	49.034	

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 602H
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 602H	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
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	81.25	40.00	260.00	263.06				
100.00	100.00	100.00	100.00	0.66	0.66	81.25	40.00	260.00	263.06	261.74	1.32	199.714	
200.00	200.00	200.00	200.00	1.35	1.35	81.25	40.00	260.00	263.06	260.36	2.70	97.530	
300.00	300.00	300.00	300.00	1.82	1.82	81.25	40.00	260.00	263.06	259.42	3.63	72.385	
400.00	400.00	400.00	400.00	2.19	2.19	81.25	40.00	260.00	263.06	258.68	4.38	60.047	
500.00	500.00	500.00	500.00	2.51	2.51	81.25	40.00	260.00	263.06	258.04	5.02	52.370	
600.00	600.00	600.00	600.00	2.80	2.80	81.25	40.00	260.00	263.06	257.46	5.60	47.003	
700.00	700.00	700.00	700.00	3.06	3.06	81.25	40.00	260.00	263.06	256.94	6.12	42.976	
800.00	800.00	800.00	800.00	3.30	3.30	81.25	40.00	260.00	263.06	256.45	6.61	39.809	
900.00	900.00	900.00	900.00	3.53	3.53	81.25	40.00	260.00	263.06	255.99	7.07	37.233	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	81.25	40.00	260.00	263.06	255.56	7.50	35.083	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	81.25	40.00	260.00	263.06	255.15	7.91	33.253	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	81.25	40.00	260.00	263.06	254.75	8.31	31.671	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	81.25	40.00	260.00	263.06	254.37	8.69	30.283	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	81.25	40.00	260.00	263.06	254.00	9.05	29.055	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	81.25	40.00	260.00	263.06	253.65	9.41	27.956	
1,600.00	1,599.98	1,595.14	1,595.12	5.03	5.03	25.94	41.43	260.67	262.41	252.53	9.89	26.544	
1,700.00	1,699.84	1,690.24	1,690.10	5.67	5.63	25.57	45.72	262.67	260.49	249.74	10.75	24.239	
1,800.00	1,799.45	1,785.26	1,784.79	6.27	6.21	24.94	52.86	266.00	257.31	245.72	11.59	22.201	
1,900.00	1,898.70	1,880.16	1,879.05	6.84	6.76	24.04	62.83	270.64	252.92	240.49	12.43	20.345	
2,000.00	1,997.47	1,972.74	1,970.68	7.39	7.12	23.09	74.40	276.98	247.74	234.49	13.24	18.707	
2,100.00	2,095.62	2,064.95	2,061.71	7.93	7.39	22.56	85.82	286.21	242.48	228.43	14.05	17.263	
2,200.00	2,193.06	2,157.35	2,152.59	8.46	7.71	22.50	97.11	298.42	237.12	222.26	14.86	15.958	
2,300.00	2,289.64	2,249.88	2,243.19	8.99	8.06	22.94	108.22	313.59	231.66	215.99	15.67	14.779	
2,400.00	2,385.44	2,342.51	2,333.36	9.25	8.43	23.83	119.16	331.72	226.66	210.43	16.23	13.969	
2,500.00	2,481.14	2,435.28	2,423.05	9.52	8.77	24.95	129.90	352.81	224.58	207.84	16.74	13.419	
2,513.43	2,493.99	2,447.74	2,435.05	9.57	8.80	25.12	131.33	355.87	224.55	207.75	16.79	13.371	CC
2,600.00	2,576.84	2,533.37	2,517.37	9.83	9.02	26.28	141.10	377.33	224.88	207.68	17.19	13.081	ES
2,700.00	2,672.54	2,633.23	2,613.36	10.15	9.30	27.62	152.49	402.38	225.39	207.70	17.70	12.735	
2,800.00	2,768.24	2,733.09	2,709.35	10.48	9.60	28.96	163.88	427.43	226.04	207.81	18.23	12.398	
2,900.00	2,863.94	2,832.94	2,805.35	10.83	9.92	30.29	175.27	452.49	226.80	208.02	18.78	12.078	
3,000.00	2,959.64	2,932.80	2,901.34	11.19	10.25	31.61	186.66	477.54	227.69	208.36	19.33	11.776	
3,100.00	3,055.34	3,032.66	2,997.33	11.56	10.60	32.92	198.05	502.59	228.70	208.80	19.90	11.494	
3,200.00	3,151.04	3,132.52	3,093.32	11.95	10.96	34.22	209.44	527.64	229.83	209.36	20.46	11.232	
3,300.00	3,246.75	3,232.38	3,189.31	12.34	11.33	35.50	220.83	552.69	231.07	210.04	21.03	10.989	
3,400.00	3,342.45	3,332.24	3,285.30	12.74	11.72	36.78	232.22	577.74	232.43	210.84	21.59	10.765	
3,500.00	3,438.15	3,432.09	3,381.29	13.14	12.11	38.03	243.61	602.80	233.90	211.75	22.15	10.559	
3,600.00	3,533.85	3,531.95	3,477.29	13.56	12.51	39.27	255.00	627.85	235.48	212.78	22.70	10.371	
3,700.00	3,629.55	3,631.81	3,573.28	13.98	12.92	40.49	266.39	652.90	237.18	213.92	23.25	10.200	
3,800.00	3,725.25	3,731.67	3,669.27	14.41	13.33	41.69	277.78	677.95	238.98	215.18	23.79	10.045	
3,900.00	3,820.95	3,831.53	3,765.26	14.84	13.75	42.88	289.17	703.00	240.88	216.56	24.32	9.904	
4,000.00	3,916.65	3,931.39	3,861.25	15.27	14.18	44.05	300.56	728.05	242.88	218.04	24.84	9.777	
4,100.00	4,012.35	4,031.24	3,957.24	15.71	14.61	45.19	311.95	753.10	244.99	219.63	25.35	9.663	
4,200.00	4,108.06	4,131.10	4,053.23	16.16	15.05	46.32	323.34	778.16	247.19	221.34	25.85	9.562	
4,300.00	4,203.76	4,230.96	4,149.23	16.61	15.49	47.43	334.73	803.21	249.48	223.14	26.34	9.471	
4,400.00	4,299.46	4,330.82	4,245.22	17.06	15.94	48.51	346.12	828.26	251.87	225.05	26.82	9.392	
4,500.00	4,395.16	4,430.68	4,341.21	17.51	16.39	49.58	357.51	853.31	254.34	227.06	27.29	9.321	
4,600.00	4,490.86	4,530.54	4,437.20	17.97	16.84	50.62	368.90	878.36	256.90	229.16	27.74	9.260	
4,700.00	4,586.56	4,630.39	4,533.19	18.43	17.29	51.65	380.29	903.41	259.55	231.36	28.19	9.208	
4,800.00	4,682.26	4,730.25	4,629.18	18.90	17.75	52.65	391.68	928.46	262.27	233.65	28.62	9.163	
4,900.00	4,777.96	4,830.11	4,725.18	19.36	18.21	53.63	403.08	953.52	265.08	236.03	29.05	9.125	
5,000.00	4,873.66	4,929.97	4,821.17	19.83	18.68	54.59	414.47	978.57	267.96	238.50	29.47	9.094	

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 602H
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 602H	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
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	
5,100.00	4,969.37	5,029.83	4,917.16	20.30	19.14	55.53	425.86	1,003.62	270.92	241.04	29.87	9.069	
5,200.00	5,065.07	5,129.69	5,013.15	20.77	19.61	56.45	437.25	1,028.67	273.94	243.67	30.27	9.050	
5,300.00	5,160.77	5,229.54	5,109.14	21.25	20.08	57.35	448.64	1,053.72	277.04	246.38	30.66	9.036	
5,400.00	5,256.47	5,329.40	5,205.13	21.72	20.55	58.23	460.03	1,078.77	280.20	249.16	31.04	9.026	
5,500.00	5,352.17	5,429.26	5,301.12	22.20	21.02	59.09	471.42	1,103.83	283.43	252.01	31.42	9.022	
5,600.00	5,447.87	5,529.12	5,397.12	22.68	21.49	59.93	482.81	1,128.88	286.72	254.93	31.78	9.021	
5,700.00	5,543.57	5,628.98	5,493.11	23.16	21.97	60.75	494.20	1,153.93	290.07	257.92	32.15	9.023	
5,800.00	5,639.27	5,728.84	5,589.10	23.64	22.45	61.55	505.59	1,178.98	293.48	260.98	32.50	9.030	
5,900.00	5,735.21	5,828.70	5,685.10	24.11	22.93	62.25	516.98	1,204.03	297.33	264.45	32.88	9.043	
6,000.00	5,832.02	5,928.55	5,781.08	24.65	23.40	62.41	528.37	1,229.08	302.74	269.25	33.49	9.040	
6,100.00	5,929.66	6,028.26	5,876.93	25.20	23.88	62.02	539.74	1,254.10	309.78	275.46	34.32	9.027	
6,200.00	6,027.98	6,127.71	5,972.53	25.73	24.36	61.14	551.09	1,279.05	318.51	283.16	35.36	9.009	
6,300.00	6,126.88	6,226.78	6,067.76	26.25	24.84	59.82	562.39	1,303.90	329.09	292.49	36.60	8.991	
6,400.00	6,226.24	6,325.35	6,162.51	26.74	25.32	58.13	573.63	1,328.63	341.70	303.67	38.04	8.984 SF	
6,500.00	6,325.93	6,423.30	6,256.67	27.19	25.80	56.16	584.80	1,353.20	356.60	316.96	39.64	8.996	
6,600.00	6,425.83	6,520.51	6,350.11	27.59	26.27	53.98	595.89	1,377.59	374.01	332.65	41.36	9.042	
6,700.00	6,525.82	6,616.89	6,442.76	27.74	26.74	106.78	606.88	1,401.77	394.11	351.08	43.03	9.160	
6,800.00	6,625.82	6,713.01	6,535.17	27.77	27.21	104.32	617.85	1,425.88	415.57	370.99	44.58	9.322	
6,900.00	6,725.82	6,809.14	6,627.57	27.80	27.67	102.09	628.81	1,450.00	437.70	391.68	46.02	9.511	
7,000.00	6,825.82	6,905.27	6,719.98	27.84	28.14	100.07	639.78	1,474.11	460.43	413.06	47.36	9.721	
7,100.00	6,925.82	7,001.40	6,812.38	27.88	28.62	98.24	650.74	1,498.23	483.65	435.04	48.61	9.949	
7,200.00	7,025.82	7,097.52	6,904.79	27.92	29.09	96.58	661.71	1,522.34	507.32	457.53	49.79	10.190	
7,300.00	7,125.82	7,193.65	6,997.19	27.95	29.56	95.06	672.67	1,546.46	531.35	480.46	50.89	10.441	
7,400.00	7,225.82	7,306.90	7,106.51	27.99	30.13	93.52	684.90	1,573.36	554.45	502.44	52.00	10.661	
7,500.00	7,325.82	7,425.23	7,221.87	28.03	30.78	92.27	695.77	1,597.27	574.27	521.28	53.00	10.836	
7,600.00	7,425.82	7,545.60	7,340.25	28.07	31.41	91.31	704.80	1,617.12	590.58	536.78	53.80	10.977	
7,700.00	7,525.82	7,667.64	7,461.09	28.11	32.02	90.60	711.84	1,632.61	603.20	548.79	54.41	11.086	
7,800.00	7,625.82	7,790.94	7,583.79	28.15	32.59	90.13	716.79	1,643.48	612.01	557.18	54.83	11.163	
7,900.00	7,725.82	7,915.04	7,707.71	28.18	33.08	89.87	719.55	1,649.57	616.91	561.91	55.01	11.215	
8,000.00	7,825.82	8,033.17	7,825.82	28.22	33.29	89.81	720.17	1,650.92	618.00	563.10	54.90	11.257	
8,100.00	7,925.82	8,133.17	7,925.82	28.26	33.32	89.81	720.17	1,650.92	618.00	563.03	54.97	11.242	
8,200.00	8,025.82	8,233.17	8,025.82	28.30	33.35	89.81	720.17	1,650.92	618.00	562.95	55.05	11.226	
8,300.00	8,125.82	8,333.17	8,125.82	28.34	33.39	89.81	720.17	1,650.92	618.00	562.88	55.13	11.211	
8,400.00	8,225.82	8,433.17	8,225.82	28.38	33.42	89.81	720.17	1,650.92	618.00	562.80	55.20	11.195	
8,500.00	8,325.82	8,533.17	8,325.82	28.42	33.45	89.81	720.17	1,650.92	618.00	562.72	55.28	11.180	
8,600.00	8,425.82	8,633.17	8,425.82	28.46	33.48	89.81	720.17	1,650.92	618.00	562.65	55.36	11.164	
8,700.00	8,525.82	8,733.17	8,525.82	28.50	33.51	89.81	720.17	1,650.92	618.00	562.57	55.43	11.149	
8,800.00	8,625.82	8,833.17	8,625.82	28.54	33.54	89.81	720.17	1,650.92	618.00	562.49	55.51	11.133	
8,900.00	8,725.82	8,933.17	8,725.82	28.58	33.58	89.81	720.17	1,650.92	618.00	562.41	55.59	11.117	
8,905.72	8,731.54	8,938.89	8,731.54	28.58	33.58	89.81	720.17	1,650.92	618.00	562.41	55.59	11.117	
9,000.00	8,825.82	9,027.63	8,820.26	28.62	33.57	89.90	719.22	1,651.07	618.18	562.44	55.73	11.092	
9,100.00	8,925.82	9,111.82	8,903.65	28.66	33.49	90.91	708.33	1,652.80	620.35	564.63	55.72	11.133	
9,200.00	9,025.82	9,191.18	8,979.99	28.70	33.39	92.85	687.12	1,656.16	625.69	570.26	55.43	11.288	
9,300.00	9,125.82	9,263.44	9,046.31	28.75	33.30	95.39	658.92	1,660.62	635.48	580.53	54.95	11.565	
9,400.00	9,225.82	9,327.52	9,101.72	28.79	33.23	98.18	627.18	1,665.65	651.17	596.81	54.35	11.980	
9,500.00	9,325.82	9,383.42	9,146.86	28.83	33.16	100.96	594.65	1,670.80	673.92	620.23	53.68	12.553	
9,600.00	9,425.82	9,431.74	9,183.14	28.87	33.11	103.55	563.16	1,675.79	704.41	651.44	52.97	13.297	
9,700.00	9,525.82	9,473.35	9,212.13	28.91	33.07	105.90	533.69	1,680.46	742.78	690.52	52.25	14.215	
9,800.00	9,625.82	9,500.00	9,229.54	28.95	33.05	107.44	513.76	1,683.61	788.80	737.08	51.72	15.250	
9,900.00	9,725.82	9,550.00	9,259.58	29.00	33.01	110.36	474.30	1,689.86	841.67	790.91	50.77	16.579	
10,000.00	9,825.82	9,567.10	9,269.03	29.04	33.00	111.37	460.23	1,692.09	900.57	850.21	50.36	17.883	
10,100.00	9,925.82	9,600.00	9,286.02	29.08	32.98	113.30	432.40	1,696.50	965.05	915.28	49.77	19.389	

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 602H
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 602H	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	10,025.82	9,600.00	9,286.02	29.12	32.98	113.30	432.40	1,696.50	1,034.06	984.48	49.59	20.854	
10,300.00	10,125.82	9,629.34	9,299.78	29.17	32.97	115.00	406.81	1,700.55	1,106.80	1,057.62	49.18	22.507	
10,400.00	10,225.82	9,650.00	9,308.66	29.21	32.96	116.19	388.39	1,703.47	1,183.02	1,134.11	48.91	24.186	
10,500.00	10,325.82	9,650.00	9,308.66	29.25	32.96	116.19	388.39	1,703.47	1,262.13	1,213.31	48.82	25.853	
10,600.00	10,425.82	9,672.73	9,317.65	29.30	32.96	117.47	367.77	1,706.73	1,343.43	1,294.76	48.67	27.603	
10,700.00	10,525.82	9,700.00	9,327.34	29.34	32.96	118.99	342.60	1,710.72	1,427.17	1,378.59	48.58	29.380	
10,800.00	10,625.82	9,700.00	9,327.34	29.38	32.96	118.99	342.60	1,710.72	1,512.12	1,463.52	48.60	31.112	
10,900.00	10,725.82	9,700.00	9,327.34	29.43	32.96	118.99	342.60	1,710.72	1,598.81	1,550.16	48.65	32.866	
11,000.00	10,825.82	9,700.00	9,327.34	29.47	32.96	118.99	342.60	1,710.72	1,686.98	1,638.27	48.71	34.632	
11,100.00	10,925.82	9,721.10	9,333.99	29.49	32.96	-56.48	322.82	1,713.85	1,775.84	1,727.03	48.81	36.380	
11,200.00	11,024.97	9,731.13	9,336.90	29.36	32.96	-42.82	313.34	1,715.36	1,862.61	1,813.51	49.10	37.934	
11,300.00	11,120.54	9,750.00	9,341.90	29.21	32.96	-33.83	295.37	1,718.20	1,943.83	1,894.21	49.62	39.178	
11,400.00	11,209.63	9,750.00	9,341.90	29.03	32.96	-28.20	295.37	1,718.20	2,017.58	1,967.31	50.27	40.137	
11,500.00	11,289.52	9,776.35	9,347.88	28.85	32.97	-24.29	270.03	1,722.22	2,082.13	2,031.00	51.13	40.723	

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 602H
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 602H	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		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	79.70	40.00	220.00	223.61				
100.00	100.00	100.00	100.00	0.66	0.66	79.70	40.00	220.00	223.61	222.29	1.32	169.762	
200.00	200.00	200.00	200.00	1.35	1.35	79.70	40.00	220.00	223.61	220.91	2.70	82.903	
300.00	300.00	300.00	300.00	1.82	1.82	79.70	40.00	220.00	223.61	219.97	3.63	61.529	
400.00	400.00	400.00	400.00	2.19	2.19	79.70	40.00	220.00	223.61	219.23	4.38	51.041	
500.00	500.00	500.00	500.00	2.51	2.51	79.70	40.00	220.00	223.61	218.58	5.02	44.516	
600.00	600.00	600.00	600.00	2.80	2.80	79.70	40.00	220.00	223.61	218.01	5.60	39.954	
700.00	700.00	700.00	700.00	3.06	3.06	79.70	40.00	220.00	223.61	217.49	6.12	36.531	
800.00	800.00	800.00	800.00	3.30	3.30	79.70	40.00	220.00	223.61	217.00	6.61	33.839	
900.00	900.00	900.00	900.00	3.53	3.53	79.70	40.00	220.00	223.61	216.54	7.07	31.649	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	79.70	40.00	220.00	223.61	216.11	7.50	29.822	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	79.70	40.00	220.00	223.61	215.70	7.91	28.266	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	79.70	40.00	220.00	223.61	215.30	8.31	26.921	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	79.70	40.00	220.00	223.61	214.92	8.69	25.742	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	79.70	40.00	220.00	223.61	214.55	9.05	24.697	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	79.70	40.00	220.00	223.61	214.20	9.41	23.763	
1,600.00	1,599.98	1,596.07	1,596.05	5.03	5.04	24.34	41.50	220.58	222.90	213.01	9.89	22.539	
1,700.00	1,699.84	1,692.08	1,691.94	5.67	5.65	23.83	46.00	222.33	220.78	210.03	10.75	20.535	
1,800.00	1,799.45	1,787.99	1,787.50	6.27	6.23	22.95	53.48	225.24	217.30	205.70	11.60	18.734	
1,900.00	1,898.70	1,883.74	1,882.59	6.84	6.78	21.68	63.92	229.30	212.53	200.08	12.46	17.063	
2,000.00	1,997.47	1,979.28	1,977.05	7.39	7.31	19.97	77.28	234.50	206.58	193.23	13.34	15.482	
2,100.00	2,095.62	2,074.56	2,070.72	7.93	7.85	17.75	93.52	240.82	199.59	185.30	14.29	13.967	
2,200.00	2,193.06	2,172.50	2,166.52	8.46	8.25	15.02	112.46	248.18	191.26	176.01	15.25	12.543	
2,300.00	2,289.64	2,271.44	2,263.28	8.99	8.52	12.21	131.73	255.68	180.14	163.96	16.17	11.137	
2,400.00	2,385.44	2,370.10	2,359.76	9.25	8.79	9.16	150.94	263.15	166.65	149.81	16.85	9.893	
2,500.00	2,481.14	2,468.71	2,456.20	9.52	9.06	5.58	170.14	270.62	153.41	135.83	17.58	8.726	
2,600.00	2,576.84	2,567.33	2,552.64	9.83	9.36	1.34	189.35	278.09	140.86	122.49	18.38	7.666	
2,700.00	2,672.54	2,665.95	2,649.08	10.15	9.67	-3.67	208.55	285.56	129.23	110.03	19.21	6.729	
2,800.00	2,768.24	2,764.56	2,745.52	10.48	9.99	-9.61	227.75	293.03	118.78	98.75	20.03	5.930	
2,900.00	2,863.94	2,863.18	2,841.96	10.83	10.32	-16.57	246.96	300.50	109.85	89.07	20.79	5.285	
3,000.00	2,959.64	2,961.80	2,938.40	11.19	10.66	-24.60	266.16	307.96	102.83	81.47	21.37	4.812	
3,100.00	3,055.34	3,060.41	3,034.84	11.56	11.02	-33.57	285.36	315.43	98.14	76.48	21.66	4.530	
3,200.00	3,151.04	3,159.03	3,131.28	11.95	11.38	-43.16	304.57	322.90	96.11	74.52	21.59	4.451 SF	
3,221.67	3,171.79	3,180.40	3,152.18	12.03	11.46	-45.27	308.73	324.52	96.05	74.52	21.53	4.461 CC, ES	
3,300.00	3,246.75	3,257.65	3,227.72	12.34	11.75	-52.86	323.77	330.37	96.92	75.74	21.18	4.577	
3,400.00	3,342.45	3,356.26	3,324.16	12.74	12.12	-62.15	342.98	337.84	100.49	79.95	20.55	4.891	
3,500.00	3,438.15	3,454.88	3,420.60	13.14	12.50	-70.62	362.18	345.31	106.55	86.67	19.88	5.358	
3,600.00	3,533.85	3,553.50	3,517.04	13.56	12.89	-78.05	381.38	352.78	114.70	95.36	19.35	5.928	
3,700.00	3,629.55	3,652.11	3,613.48	13.98	13.28	-84.42	400.59	360.25	124.54	105.53	19.01	6.551	
3,800.00	3,725.25	3,750.73	3,709.92	14.41	13.68	-89.82	419.79	367.72	135.70	116.82	18.88	7.187	
3,900.00	3,820.95	3,849.35	3,806.36	14.84	14.08	-94.37	438.99	375.19	147.87	128.95	18.92	7.814	
4,000.00	3,916.65	3,947.96	3,902.80	15.27	14.49	-98.22	458.20	382.66	160.84	141.73	19.10	8.419	
4,100.00	4,012.35	4,046.58	3,999.24	15.71	14.90	-101.49	477.40	390.13	174.41	155.03	19.38	8.998	
4,200.00	4,108.06	4,145.20	4,095.68	16.16	15.31	-104.28	496.60	397.59	188.47	168.73	19.74	9.548	
4,300.00	4,203.76	4,243.81	4,192.12	16.61	15.73	-106.68	515.81	405.06	202.91	182.76	20.15	10.072	
4,400.00	4,299.46	4,342.43	4,288.56	17.06	16.15	-108.77	535.01	412.53	217.65	197.06	20.59	10.570	
4,500.00	4,395.16	4,441.05	4,385.00	17.51	16.57	-110.58	554.22	420.00	232.64	211.57	21.07	11.043	
4,600.00	4,490.86	4,539.66	4,481.44	17.97	16.99	-112.18	573.42	427.47	247.83	226.27	21.56	11.494	
4,700.00	4,586.56	4,638.28	4,577.88	18.43	17.42	-113.59	592.62	434.94	263.19	241.11	22.07	11.924	
4,800.00	4,682.26	4,736.90	4,674.32	18.90	17.85	-114.85	611.83	442.41	278.68	256.09	22.60	12.334	
4,900.00	4,777.96	4,835.52	4,770.76	19.36	18.28	-115.98	631.03	449.88	294.30	271.17	23.13	12.725	
5,000.00	4,873.66	4,934.13	4,867.20	19.83	18.71	-116.99	650.23	457.35	310.01	286.36	23.66	13.104	

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 602H
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 602H	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:													
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	4,969.37	5,033.35	4,964.38	20.30	19.14	-118.03	668.90	464.61	325.75	301.56	24.19	13.466	
5,200.00	5,065.07	5,132.55	5,062.13	20.77	19.64	-119.53	684.61	470.72	341.40	316.58	24.81	13.760	
5,300.00	5,160.77	5,231.11	5,159.77	21.25	20.15	-121.43	697.08	475.57	357.14	331.63	25.52	13.995	
5,400.00	5,256.47	5,328.82	5,256.96	21.72	20.64	-123.67	706.35	479.18	373.29	346.96	26.33	14.179	
5,500.00	5,352.17	5,425.45	5,353.36	22.20	21.09	-126.19	712.48	481.56	390.13	362.88	27.25	14.319	
5,600.00	5,447.87	5,520.80	5,448.66	22.68	21.45	-128.93	715.55	482.75	408.01	379.73	28.28	14.426	
5,700.00	5,543.57	5,615.72	5,543.57	23.16	21.58	-131.80	715.98	482.92	427.21	397.80	29.41	14.527	
5,800.00	5,639.27	5,711.42	5,639.27	23.64	21.62	-134.51	715.98	482.92	447.51	416.93	30.59	14.631	
5,900.00	5,735.21	5,807.35	5,735.21	24.11	21.67	-137.12	715.98	482.92	468.14	436.41	31.73	14.754	
6,000.00	5,832.02	5,904.17	5,832.02	24.65	21.72	-139.35	715.98	482.92	487.06	454.23	32.83	14.838	
6,100.00	5,929.66	6,001.80	5,929.66	25.20	21.76	-141.15	715.98	482.92	503.84	470.00	33.84	14.889	
6,200.00	6,027.98	6,100.13	6,027.98	25.73	21.81	-142.58	715.98	482.92	518.25	483.49	34.75	14.913	
6,300.00	6,126.88	6,199.03	6,126.88	26.25	21.86	-143.69	715.98	482.92	530.10	494.53	35.56	14.906	
6,400.00	6,226.24	6,298.38	6,226.24	26.74	21.92	-144.50	715.98	482.92	539.26	502.99	36.27	14.867	
6,500.00	6,325.93	6,398.07	6,325.93	27.19	21.97	-145.05	715.98	482.92	545.65	508.77	36.88	14.794	
6,600.00	6,425.83	6,497.97	6,425.83	27.59	22.02	-145.35	715.98	482.92	549.21	511.83	37.38	14.693	
6,700.00	6,525.82	6,597.97	6,525.82	27.74	22.07	-90.23	715.98	482.92	550.00	512.42	37.59	14.633	
6,800.00	6,625.82	6,697.97	6,625.82	27.77	22.12	-90.23	715.98	482.92	550.00	512.30	37.70	14.589	
6,900.00	6,725.82	6,797.97	6,725.82	27.80	22.17	-90.23	715.98	482.92	550.00	512.18	37.82	14.543	
7,000.00	6,825.82	6,897.97	6,825.82	27.84	22.22	-90.23	715.98	482.92	550.00	512.07	37.94	14.497	
7,100.00	6,925.82	6,997.97	6,925.82	27.88	22.28	-90.23	715.98	482.92	550.00	511.95	38.06	14.452	
7,200.00	7,025.82	7,097.97	7,025.82	27.92	22.33	-90.23	715.98	482.92	550.00	511.83	38.18	14.406	
7,300.00	7,125.82	7,197.97	7,125.82	27.95	22.38	-90.23	715.98	482.92	550.00	511.71	38.30	14.361	
7,400.00	7,225.82	7,297.97	7,225.82	27.99	22.43	-90.23	715.98	482.92	550.00	511.59	38.42	14.316	
7,500.00	7,325.82	7,397.97	7,325.82	28.03	22.49	-90.23	715.98	482.92	550.00	511.47	38.54	14.271	
7,600.00	7,425.82	7,497.97	7,425.82	28.07	22.54	-90.23	715.98	482.92	550.00	511.34	38.66	14.227	
7,700.00	7,525.82	7,597.97	7,525.82	28.11	22.59	-90.23	715.98	482.92	550.00	511.22	38.78	14.182	
7,800.00	7,625.82	7,697.97	7,625.82	28.15	22.65	-90.23	715.98	482.92	550.00	511.10	38.90	14.138	
7,900.00	7,725.82	7,797.97	7,725.82	28.18	22.70	-90.23	715.98	482.92	550.00	510.98	39.02	14.094	
8,000.00	7,825.82	7,897.97	7,825.82	28.22	22.75	-90.23	715.98	482.92	550.00	510.86	39.14	14.050	
8,100.00	7,925.82	7,997.97	7,925.82	28.26	22.81	-90.23	715.98	482.92	550.00	510.74	39.27	14.007	
8,200.00	8,025.82	8,097.97	8,025.82	28.30	22.86	-90.23	715.98	482.92	550.00	510.62	39.39	13.963	
8,300.00	8,125.82	8,197.97	8,125.82	28.34	22.92	-90.23	715.98	482.92	550.00	510.49	39.51	13.920	
8,400.00	8,225.82	8,297.97	8,225.82	28.38	22.97	-90.23	715.98	482.92	550.00	510.37	39.63	13.877	
8,500.00	8,325.82	8,397.97	8,325.82	28.42	23.02	-90.23	715.98	482.92	550.00	510.25	39.76	13.834	
8,600.00	8,425.82	8,497.97	8,425.82	28.46	23.08	-90.23	715.98	482.92	550.00	510.13	39.88	13.792	
8,700.00	8,525.82	8,597.97	8,525.82	28.50	23.13	-90.23	715.98	482.92	550.00	510.00	40.00	13.749	
8,800.00	8,625.82	8,697.97	8,625.82	28.54	23.19	-90.23	715.98	482.92	550.00	509.88	40.13	13.707	
8,900.00	8,725.82	8,797.97	8,725.82	28.58	23.24	-90.23	715.98	482.92	550.00	509.75	40.25	13.665	
9,000.00	8,825.82	8,897.97	8,825.82	28.62	23.30	-90.23	715.98	482.92	550.00	509.63	40.37	13.623	
9,100.00	8,925.82	8,997.97	8,925.82	28.66	23.36	-90.23	715.98	482.92	550.00	509.51	40.50	13.581	
9,200.00	9,025.82	9,097.97	9,025.82	28.70	23.41	-90.23	715.98	482.92	550.00	509.38	40.62	13.540	
9,300.00	9,125.82	9,197.97	9,125.82	28.75	23.47	-90.23	715.98	482.92	550.00	509.26	40.75	13.498	
9,400.00	9,225.82	9,297.97	9,225.82	28.79	23.52	-90.23	715.98	482.92	550.00	509.13	40.87	13.457	
9,500.00	9,325.82	9,397.97	9,325.82	28.83	23.58	-90.23	715.98	482.92	550.00	509.01	41.00	13.416	
9,600.00	9,425.82	9,497.97	9,425.82	28.87	23.63	-90.23	715.98	482.92	550.00	508.88	41.12	13.376	
9,700.00	9,525.82	9,597.97	9,525.82	28.91	23.69	-90.23	715.98	482.92	550.00	508.76	41.25	13.335	
9,800.00	9,625.82	9,697.97	9,625.82	28.95	23.75	-90.23	715.98	482.92	550.00	508.63	41.37	13.294	
9,868.14	9,693.96	9,766.11	9,693.96	28.98	23.76	-90.25	715.73	482.92	550.00	508.56	41.44	13.272	
9,900.00	9,725.82	9,797.87	9,725.66	29.00	23.74	-90.44	713.91	482.93	550.01	508.49	41.51	13.249	
10,000.00	9,825.82	9,894.81	9,821.10	29.04	23.74	-92.14	697.57	483.00	550.32	508.34	41.99	13.107	
10,100.00	9,925.82	9,983.98	9,905.32	29.08	23.67	-95.15	668.54	483.13	552.41	509.72	42.69	12.941	

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 602H
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 602H	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						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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,200.00	10,025.82	10,062.60	9,975.06	29.12	23.59	-98.87	632.38	483.29	558.60	515.23	43.36	12.882		
10,300.00	10,125.82	10,130.01	10,030.44	29.17	23.51	-102.73	594.01	483.45	571.33	527.52	43.81	13.040		
10,400.00	10,225.82	10,186.96	10,073.45	29.21	23.44	-106.38	556.72	483.62	592.46	548.51	43.95	13.480		
10,500.00	10,325.82	10,234.82	10,106.58	29.25	23.38	-109.64	522.20	483.77	622.92	579.10	43.81	14.218		
10,600.00	10,425.82	10,275.08	10,132.14	29.30	23.32	-112.47	491.11	483.91	662.73	619.23	43.50	15.235		
10,700.00	10,525.82	10,300.00	10,146.85	29.34	23.29	-114.24	470.99	483.99	711.35	668.38	42.97	16.553		
10,800.00	10,625.82	10,350.00	10,173.64	29.38	23.23	-117.80	428.80	484.18	767.66	724.66	43.00	17.851		
10,900.00	10,725.82	10,350.00	10,173.64	29.43	23.23	-117.80	428.80	484.18	830.50	788.07	42.43	19.573		
11,000.00	10,825.82	10,384.21	10,189.81	29.47	23.19	-120.21	398.66	484.31	898.64	856.15	42.49	21.150		
11,100.00	10,925.82	10,400.00	10,196.66	29.49	23.17	57.18	384.43	484.37	971.46	929.00	42.46	22.880		
11,200.00	11,024.97	10,423.42	10,206.09	29.36	23.15	47.63	362.99	484.47	1,043.55	1,001.05	42.50	24.555		
11,300.00	11,120.54	10,450.00	10,215.72	29.21	23.12	40.27	338.22	484.58	1,110.97	1,068.37	42.61	26.074		
11,400.00	11,209.63	10,473.14	10,223.17	29.03	23.10	34.96	316.31	484.67	1,172.00	1,129.23	42.77	27.402		
11,500.00	11,289.52	10,500.00	10,230.68	28.85	23.08	31.03	290.53	484.78	1,225.31	1,182.27	43.04	28.468		
11,600.00	11,357.78	10,530.42	10,237.73	28.68	23.06	28.18	260.94	484.91	1,269.84	1,226.43	43.41	29.251		
11,700.00	11,412.36	10,550.00	10,241.43	28.55	23.05	26.29	241.72	485.00	1,304.93	1,261.12	43.81	29.784		
11,800.00	11,451.58	10,600.00	10,247.89	28.46	23.03	24.92	192.15	485.22	1,329.65	1,285.26	44.39	29.954		
11,900.00	11,474.25	10,623.48	10,249.42	28.44	23.03	24.26	168.73	485.32	1,343.78	1,298.88	44.89	29.933		
12,000.00	11,480.00	10,668.22	10,250.00	28.48	23.04	24.09	124.00	485.51	1,347.37	1,302.03	45.34	29.719		
12,100.00	11,480.00	10,768.22	10,250.00	28.56	23.06	24.09	24.00	485.95	1,347.37	1,301.77	45.60	29.550		
12,200.00	11,480.00	10,868.22	10,250.00	28.65	23.08	24.09	-76.00	486.39	1,347.37	1,301.48	45.89	29.363		
12,300.00	11,480.00	10,968.22	10,250.00	28.76	23.11	24.09	-176.00	486.83	1,347.37	1,301.14	46.23	29.146		
12,400.00	11,480.00	11,068.22	10,250.00	28.88	23.15	24.09	-276.00	487.27	1,347.37	1,300.75	46.62	28.901		
12,500.00	11,480.00	11,168.22	10,250.00	29.02	23.19	24.09	-376.00	487.70	1,347.37	1,300.31	47.06	28.630		
12,600.00	11,480.00	11,268.22	10,250.00	29.17	23.24	24.09	-476.00	488.14	1,347.37	1,299.82	47.55	28.337		
12,700.00	11,480.00	11,368.22	10,250.00	29.33	23.29	24.09	-575.99	488.58	1,347.37	1,299.29	48.08	28.022		
12,800.00	11,480.00	11,468.22	10,250.00	29.51	23.35	24.09	-675.99	489.02	1,347.37	1,298.71	48.66	27.690		
12,900.00	11,480.00	11,568.22	10,250.00	29.69	23.42	24.09	-775.99	489.46	1,347.37	1,298.09	49.28	27.342		
13,000.00	11,480.00	11,668.22	10,250.00	29.90	23.49	24.09	-875.99	489.90	1,347.37	1,297.43	49.94	26.980		
13,100.00	11,480.00	11,768.22	10,250.00	30.11	23.57	24.09	-975.99	490.33	1,347.37	1,296.73	50.64	26.607		
13,200.00	11,480.00	11,868.22	10,250.00	30.34	23.67	24.09	-1,075.99	490.77	1,347.37	1,295.99	51.38	26.224		
13,300.00	11,480.00	11,968.22	10,250.00	30.58	23.77	24.09	-1,175.99	491.21	1,347.37	1,295.22	52.15	25.835		
13,400.00	11,480.00	12,068.22	10,250.00	30.84	23.89	24.09	-1,275.99	491.65	1,347.37	1,294.41	52.96	25.440		
13,500.00	11,480.00	12,168.22	10,250.00	31.11	24.03	24.09	-1,375.99	492.09	1,347.37	1,293.57	53.80	25.042		
13,600.00	11,480.00	12,268.22	10,250.00	31.39	24.18	24.09	-1,475.99	492.52	1,347.37	1,292.69	54.68	24.642		
13,700.00	11,480.00	12,368.22	10,250.00	31.68	24.35	24.09	-1,575.98	492.96	1,347.37	1,291.79	55.58	24.242		
13,800.00	11,480.00	12,468.22	10,250.00	31.99	24.54	24.09	-1,675.98	493.40	1,347.37	1,290.86	56.51	23.842		
13,900.00	11,480.00	12,568.22	10,250.00	32.31	24.76	24.09	-1,775.98	493.84	1,347.37	1,289.90	57.47	23.444		
14,000.00	11,480.00	12,668.22	10,250.00	32.65	25.01	24.09	-1,875.98	494.28	1,347.37	1,288.91	58.46	23.049		
14,100.00	11,480.00	12,768.22	10,250.00	32.99	25.28	24.09	-1,975.98	494.71	1,347.37	1,287.90	59.47	22.658		
14,200.00	11,480.00	12,868.22	10,250.00	33.35	25.59	24.09	-2,075.98	495.15	1,347.37	1,286.87	60.50	22.271		
14,300.00	11,480.00	12,968.22	10,250.00	33.73	25.93	24.09	-2,175.98	495.59	1,347.37	1,285.81	61.55	21.889		
14,400.00	11,480.00	13,068.22	10,250.00	34.11	26.31	24.09	-2,275.98	496.03	1,347.37	1,284.74	62.63	21.513		
14,500.00	11,480.00	13,168.22	10,250.00	34.51	26.72	24.09	-2,375.98	496.47	1,347.37	1,283.64	63.73	21.143		
14,600.00	11,480.00	13,268.22	10,250.00	34.91	27.15	24.09	-2,475.98	496.91	1,347.37	1,282.53	64.84	20.779		
14,700.00	11,480.00	13,368.22	10,250.00	35.33	27.62	24.09	-2,575.98	497.34	1,347.37	1,281.39	65.98	20.422		
14,800.00	11,480.00	13,468.22	10,250.00	35.76	28.12	24.09	-2,675.97	497.78	1,347.37	1,280.24	67.13	20.072		
14,900.00	11,480.00	13,568.22	10,250.00	36.21	28.63	24.09	-2,775.97	498.22	1,347.37	1,279.07	68.29	19.729		
15,000.00	11,480.00	13,668.22	10,250.00	36.66	29.17	24.09	-2,875.97	498.66	1,347.37	1,277.89	69.48	19.393		
15,100.00	11,480.00	13,768.22	10,250.00	37.12	29.73	24.09	-2,975.97	499.10	1,347.37	1,276.69	70.67	19.065		
15,200.00	11,480.00	13,868.22	10,250.00	37.60	30.31	24.09	-3,075.97	499.53	1,347.37	1,275.48	71.89	18.743		
15,300.00	11,480.00	13,968.22	10,250.00	38.08	30.90	24.09	-3,175.97	499.97	1,347.37	1,274.26	73.11	18.429		

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 602H
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 602H	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			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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,400.00	11,480.00	14,068.22	10,250.00	38.57	31.50	24.09	-3,275.97	500.41	1,347.37	1,273.02	74.35	18.123			
15,500.00	11,480.00	14,168.22	10,250.00	39.07	32.12	24.09	-3,375.97	500.85	1,347.37	1,271.77	75.60	17.823			
15,600.00	11,480.00	14,268.22	10,250.00	39.59	32.74	24.09	-3,475.97	501.29	1,347.37	1,270.51	76.86	17.531			
15,700.00	11,480.00	14,368.22	10,250.00	40.11	33.38	24.09	-3,575.97	501.73	1,347.37	1,269.24	78.13	17.246			
15,800.00	11,480.00	14,468.22	10,250.00	40.63	34.02	24.09	-3,675.96	502.16	1,347.37	1,267.96	79.41	16.967			
15,900.00	11,480.00	14,568.22	10,250.00	41.17	34.68	24.09	-3,775.96	502.60	1,347.37	1,266.67	80.70	16.695			
16,000.00	11,480.00	14,668.22	10,250.00	41.71	35.34	24.09	-3,875.96	503.04	1,347.37	1,265.36	82.00	16.431			
16,100.00	11,480.00	14,768.22	10,250.00	42.27	36.00	24.09	-3,975.96	503.48	1,347.37	1,264.05	83.31	16.172			
16,200.00	11,480.00	14,868.22	10,250.00	42.82	36.67	24.09	-4,075.96	503.92	1,347.37	1,262.74	84.63	15.920			
16,300.00	11,480.00	14,968.22	10,250.00	43.39	37.35	24.09	-4,175.96	504.35	1,347.37	1,261.41	85.96	15.674			
16,400.00	11,480.00	15,068.22	10,250.00	43.96	38.03	24.09	-4,275.96	504.79	1,347.37	1,260.07	87.29	15.435			
16,500.00	11,480.00	15,168.22	10,250.00	44.54	38.71	24.09	-4,375.96	505.23	1,347.37	1,258.73	88.64	15.201			
16,600.00	11,480.00	15,268.22	10,250.00	45.13	39.40	24.09	-4,475.96	505.67	1,347.37	1,257.38	89.99	14.973			
16,700.00	11,480.00	15,368.22	10,250.00	45.72	40.10	24.09	-4,575.96	506.11	1,347.37	1,256.03	91.34	14.751			
16,800.00	11,480.00	15,468.22	10,250.00	46.31	40.79	24.09	-4,675.96	506.55	1,347.37	1,254.66	92.71	14.534			
16,900.00	11,480.00	15,568.22	10,250.00	46.92	41.49	24.09	-4,775.95	506.98	1,347.37	1,253.29	94.07	14.322			
17,000.00	11,480.00	15,668.22	10,250.00	47.52	42.20	24.09	-4,875.95	507.42	1,347.37	1,251.92	95.45	14.116			
17,100.00	11,480.00	15,768.22	10,250.00	48.14	42.90	24.09	-4,975.95	507.86	1,347.37	1,250.54	96.83	13.915			
17,200.00	11,480.00	15,868.22	10,250.00	48.75	43.61	24.09	-5,075.95	508.30	1,347.37	1,249.15	98.22	13.718			
17,300.00	11,480.00	15,968.22	10,250.00	49.38	44.32	24.09	-5,175.95	508.74	1,347.37	1,247.76	99.61	13.527			
17,400.00	11,480.00	16,068.22	10,250.00	50.00	45.04	24.09	-5,275.95	509.17	1,347.37	1,246.36	101.00	13.340			
17,500.00	11,480.00	16,168.22	10,250.00	50.63	45.75	24.09	-5,375.95	509.61	1,347.37	1,244.96	102.41	13.157			
17,600.00	11,480.00	16,268.22	10,250.00	51.27	46.47	24.09	-5,475.95	510.05	1,347.37	1,243.56	103.81	12.979			
17,700.00	11,480.00	16,368.22	10,250.00	51.91	47.19	24.09	-5,575.95	510.49	1,347.37	1,242.15	105.22	12.805			
17,800.00	11,480.00	16,468.22	10,250.00	52.55	47.91	24.09	-5,675.95	510.93	1,347.37	1,240.73	106.64	12.635			
17,900.00	11,480.00	16,568.22	10,250.00	53.20	48.63	24.09	-5,775.94	511.36	1,347.37	1,239.31	108.05	12.469			
18,000.00	11,480.00	16,668.22	10,250.00	53.85	49.36	24.09	-5,875.94	511.80	1,347.37	1,237.89	109.48	12.307			
18,100.00	11,480.00	16,768.22	10,250.00	54.50	50.09	24.09	-5,975.94	512.24	1,347.37	1,236.47	110.90	12.149			
18,200.00	11,480.00	16,868.22	10,250.00	55.16	50.81	24.09	-6,075.94	512.68	1,347.37	1,235.04	112.33	11.994			
18,300.00	11,480.00	16,968.22	10,250.00	55.82	51.54	24.09	-6,175.94	513.12	1,347.37	1,233.60	113.77	11.843			
18,400.00	11,480.00	17,068.22	10,250.00	56.48	52.27	24.09	-6,275.94	513.56	1,347.37	1,232.16	115.20	11.696			
18,500.00	11,480.00	17,168.22	10,250.00	57.15	53.00	24.09	-6,375.94	513.99	1,347.37	1,230.72	116.64	11.551			
18,600.00	11,480.00	17,268.22	10,250.00	57.82	53.74	24.09	-6,475.94	514.43	1,347.37	1,229.28	118.09	11.410			
18,700.00	11,480.00	17,368.22	10,250.00	58.49	54.47	24.09	-6,575.94	514.87	1,347.37	1,227.83	119.53	11.272			
18,800.00	11,480.00	17,468.22	10,250.00	59.16	55.21	24.09	-6,675.94	515.31	1,347.37	1,226.39	120.98	11.137			
18,900.00	11,480.00	17,568.22	10,250.00	59.84	55.94	24.09	-6,775.94	515.75	1,347.37	1,224.93	122.43	11.005			
19,000.00	11,480.00	17,668.22	10,250.00	60.52	56.68	24.09	-6,875.93	516.18	1,347.37	1,223.48	123.89	10.876			
19,100.00	11,480.00	17,768.22	10,250.00	61.20	57.42	24.09	-6,975.93	516.62	1,347.37	1,222.02	125.35	10.749			
19,200.00	11,480.00	17,868.22	10,250.00	61.88	58.16	24.09	-7,075.93	517.06	1,347.37	1,220.56	126.81	10.625			
19,300.00	11,480.00	17,968.22	10,250.00	62.57	58.90	24.09	-7,175.93	517.50	1,347.37	1,219.10	128.27	10.504			
19,400.00	11,480.00	18,068.22	10,250.00	63.26	59.64	24.09	-7,275.93	517.94	1,347.37	1,217.63	129.73	10.386			
19,500.00	11,480.00	18,168.22	10,250.00	63.95	60.38	24.09	-7,375.93	518.38	1,347.37	1,216.17	131.20	10.269			
19,600.00	11,480.00	18,268.22	10,250.00	64.64	61.12	24.09	-7,475.93	518.81	1,347.37	1,214.70	132.67	10.156			
19,700.00	11,480.00	18,368.22	10,250.00	65.33	61.86	24.09	-7,575.93	519.25	1,347.37	1,213.23	134.14	10.044			
19,800.00	11,480.00	18,468.22	10,250.00	66.03	62.61	24.09	-7,675.93	519.69	1,347.37	1,211.75	135.61	9.935			
19,900.00	11,480.00	18,568.22	10,250.00	66.73	63.35	24.09	-7,775.93	520.13	1,347.37	1,210.28	137.09	9.828			
20,000.00	11,480.00	18,668.22	10,250.00	67.42	64.10	24.09	-7,875.92	520.57	1,347.37	1,208.80	138.57	9.724			
20,100.00	11,480.00	18,768.22	10,250.00	68.13	64.84	24.09	-7,975.92	521.00	1,347.37	1,207.32	140.05	9.621			
20,200.00	11,480.00	18,868.22	10,250.00	68.83	65.59	24.09	-8,075.92	521.44	1,347.37	1,205.84	141.53	9.520			
20,300.00	11,480.00	18,968.22	10,250.00	69.53	66.34	24.09	-8,175.92	521.88	1,347.37	1,204.36	143.01	9.421			
20,400.00	11,480.00	19,068.22	10,250.00	70.24	67.08	24.09	-8,275.92	522.32	1,347.37	1,202.87	144.49	9.325			
20,500.00	11,480.00	19,168.22	10,250.00	70.94	67.83	24.09	-8,375.92	522.76	1,347.37	1,201.39	145.98	9.230			

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 602H
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 602H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)	
20,600.00	11,480.00	19,268.22	10,250.00	71.65	68.58	24.09	-8,475.92	523.19	1,347.37	1,199.90	
20,700.00	11,480.00	19,368.22	10,250.00	72.36	69.33	24.09	-8,575.92	523.63	1,347.37	1,198.41	
20,800.00	11,480.00	19,468.22	10,250.00	73.07	70.08	24.09	-8,675.92	524.07	1,347.37	1,196.92	
20,900.00	11,480.00	19,568.22	10,250.00	73.78	70.83	24.09	-8,775.92	524.51	1,347.37	1,195.43	
21,000.00	11,480.00	19,668.22	10,250.00	74.50	71.58	24.09	-8,875.91	524.95	1,347.37	1,193.93	
21,100.00	11,480.00	19,768.22	10,250.00	75.21	72.33	24.09	-8,975.91	525.39	1,347.37	1,192.44	
21,200.00	11,480.00	19,868.22	10,250.00	75.93	73.08	24.09	-9,075.91	525.82	1,347.37	1,190.94	
21,300.00	11,480.00	19,968.22	10,250.00	76.65	73.83	24.09	-9,175.91	526.26	1,347.37	1,189.44	
21,400.00	11,480.00	20,068.22	10,250.00	77.36	74.58	24.09	-9,275.91	526.70	1,347.37	1,187.95	
21,500.00	11,480.00	20,168.22	10,250.00	78.08	75.34	24.09	-9,375.91	527.14	1,347.37	1,186.45	
21,600.00	11,480.00	20,268.22	10,250.00	78.80	76.09	24.09	-9,475.91	527.58	1,347.37	1,184.94	
21,700.00	11,480.00	20,368.22	10,250.00	79.52	76.84	24.09	-9,575.91	528.01	1,347.37	1,183.44	
21,800.00	11,480.00	20,468.22	10,250.00	80.25	77.59	24.09	-9,675.91	528.45	1,347.37	1,181.94	
21,900.00	11,480.00	20,568.22	10,250.00	80.97	78.35	24.09	-9,775.91	528.89	1,347.37	1,180.43	
22,000.00	11,480.00	20,668.22	10,250.00	81.69	79.10	24.09	-9,875.91	529.33	1,347.37	1,178.93	
22,100.00	11,480.00	20,768.22	10,250.00	82.42	79.86	24.09	-9,975.90	529.77	1,347.37	1,177.42	
22,200.00	11,480.00	20,868.22	10,250.00	83.14	80.61	24.09	-10,075.90	530.21	1,347.37	1,175.91	
22,300.00	11,480.00	20,968.22	10,250.00	83.87	81.37	24.09	-10,175.90	530.64	1,347.37	1,174.40	
22,400.00	11,480.00	21,068.22	10,250.00	84.60	82.12	24.09	-10,275.90	531.08	1,347.37	1,172.89	
22,436.41	11,480.00	21,104.63	10,250.00	84.86	82.40	24.09	-10,312.31	531.24	1,347.37	1,172.34	

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 602H
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 602H	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	80.54	40.00	240.00	243.31				
100.00	100.00	100.00	100.00	0.66	0.66	80.54	40.00	240.00	243.31	241.99	1.32	184.721	
200.00	200.00	200.00	200.00	1.35	1.35	80.54	40.00	240.00	243.31	240.61	2.70	90.208	
300.00	300.00	300.00	300.00	1.82	1.82	80.54	40.00	240.00	243.31	239.68	3.63	66.951	
400.00	400.00	400.00	400.00	2.19	2.19	80.54	40.00	240.00	243.31	238.93	4.38	55.539	
500.00	500.00	500.00	500.00	2.51	2.51	80.54	40.00	240.00	243.31	238.29	5.02	48.439	
600.00	600.00	600.00	600.00	2.80	2.80	80.54	40.00	240.00	243.31	237.71	5.60	43.474	
700.00	700.00	700.00	700.00	3.06	3.06	80.54	40.00	240.00	243.31	237.19	6.12	39.750	
800.00	800.00	800.00	800.00	3.30	3.30	80.54	40.00	240.00	243.31	236.70	6.61	36.820	
900.00	900.00	900.00	900.00	3.53	3.53	80.54	40.00	240.00	243.31	236.25	7.07	34.438	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	80.54	40.00	240.00	243.31	235.81	7.50	32.449	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	80.54	40.00	240.00	243.31	235.40	7.91	30.757	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	80.54	40.00	240.00	243.31	235.00	8.31	29.293 CC, ES	
1,300.00	1,300.00	1,296.19	1,296.18	4.34	4.53	80.20	41.54	240.50	244.09	235.38	8.71	28.019	
1,400.00	1,400.00	1,392.17	1,392.03	4.53	5.19	79.21	46.13	241.99	246.48	237.29	9.19	26.816	
1,500.00	1,500.00	1,487.72	1,487.24	4.70	5.81	77.60	53.73	244.46	250.62	240.94	9.68	25.883	
1,600.00	1,599.98	1,582.79	1,581.65	5.03	6.40	20.37	64.29	247.89	255.11	244.81	10.31	24.756	
1,700.00	1,699.84	1,677.43	1,675.22	5.67	6.95	18.07	77.75	252.27	258.51	247.24	11.27	22.932	
1,800.00	1,799.45	1,770.11	1,766.49	6.27	7.33	15.81	92.79	258.05	261.19	248.97	12.22	21.370	
1,900.00	1,898.70	1,862.56	1,857.39	6.84	7.60	14.09	107.27	266.68	263.60	250.46	13.14	20.065	
2,000.00	1,997.47	1,955.26	1,948.31	7.39	7.89	12.92	121.14	278.25	265.52	251.51	14.01	18.951	
2,100.00	2,095.62	2,048.12	2,039.06	7.93	8.21	12.29	134.37	292.75	266.79	251.92	14.87	17.941	
2,200.00	2,193.06	2,141.03	2,129.45	8.46	8.56	12.18	146.93	310.16	267.32	251.58	15.74	16.980	
2,300.00	2,289.64	2,233.91	2,219.30	8.99	8.92	12.60	158.80	330.46	267.10	250.48	16.62	16.067	
2,378.76	2,365.23	2,306.98	2,289.57	9.19	9.19	13.26	167.64	348.44	267.03	249.93	17.10	15.617	
2,400.00	2,385.44	2,326.66	2,308.43	9.25	9.26	13.51	169.94	353.59	266.73	249.51	17.22	15.487	
2,500.00	2,481.14	2,421.10	2,398.49	9.52	9.57	14.80	180.58	379.93	268.76	250.95	17.81	15.094	
2,600.00	2,576.84	2,520.83	2,493.38	9.83	9.84	16.23	191.62	408.57	271.68	253.31	18.38	14.784	
2,700.00	2,672.54	2,620.56	2,588.27	10.15	10.13	17.63	202.65	437.20	274.78	255.79	18.99	14.473	
2,800.00	2,768.24	2,720.29	2,683.16	10.48	10.44	19.00	213.68	465.83	278.03	258.42	19.61	14.175	
2,900.00	2,863.94	2,820.01	2,778.05	10.83	10.77	20.34	224.71	494.46	281.44	261.18	20.26	13.891	
3,000.00	2,959.64	2,919.74	2,872.94	11.19	11.11	21.64	235.74	523.09	285.01	264.09	20.92	13.623	
3,100.00	3,055.34	3,019.47	2,967.83	11.56	11.47	22.91	246.77	551.72	288.71	267.12	21.59	13.372	
3,200.00	3,151.04	3,119.20	3,062.72	11.95	11.84	24.15	257.81	580.35	292.56	270.29	22.27	13.137	
3,300.00	3,246.75	3,218.93	3,157.61	12.34	12.23	25.36	268.84	608.98	296.53	273.58	22.95	12.918	
3,400.00	3,342.45	3,318.65	3,252.50	12.74	12.62	26.53	279.87	637.61	300.64	277.00	23.64	12.716	
3,500.00	3,438.15	3,418.38	3,347.39	13.14	13.03	27.68	290.90	666.24	304.87	280.54	24.33	12.528	
3,600.00	3,533.85	3,518.11	3,442.28	13.56	13.44	28.79	301.93	694.87	309.22	284.19	25.03	12.355	
3,700.00	3,629.55	3,617.84	3,537.17	13.98	13.86	29.87	312.97	723.50	313.68	287.96	25.72	12.196	
3,800.00	3,725.25	3,717.56	3,632.06	14.41	14.29	30.91	324.00	752.13	318.25	291.84	26.41	12.051	
3,900.00	3,820.95	3,817.29	3,726.96	14.84	14.72	31.93	335.03	780.76	322.92	295.82	27.10	11.917	
4,000.00	3,916.65	3,917.02	3,821.85	15.27	15.16	32.92	346.06	809.40	327.69	299.91	27.78	11.794	
4,100.00	4,012.35	4,016.75	3,916.74	15.71	15.61	33.88	357.09	838.03	332.56	304.09	28.47	11.682	
4,200.00	4,108.06	4,116.48	4,011.63	16.16	16.06	34.82	368.12	866.66	337.52	308.37	29.15	11.580	
4,300.00	4,203.76	4,216.20	4,106.52	16.61	16.51	35.72	379.16	895.29	342.56	312.74	29.82	11.488	
4,400.00	4,299.46	4,315.93	4,201.41	17.06	16.97	36.60	390.19	923.92	347.69	317.20	30.49	11.403	
4,500.00	4,395.16	4,415.66	4,296.30	17.51	17.43	37.46	401.22	952.55	352.90	321.74	31.16	11.326	
4,600.00	4,490.86	4,515.39	4,391.19	17.97	17.89	38.29	412.25	981.18	358.19	326.37	31.82	11.257	
4,700.00	4,586.56	4,615.11	4,486.08	18.43	18.36	39.09	423.28	1,009.81	363.54	331.07	32.48	11.194	
4,800.00	4,682.26	4,714.84	4,580.97	18.90	18.83	39.87	434.32	1,038.44	368.97	335.84	33.13	11.138	
4,900.00	4,777.96	4,814.57	4,675.86	19.36	19.30	40.63	445.35	1,067.07	374.46	340.69	33.77	11.087	
5,000.00	4,873.66	4,914.30	4,770.75	19.83	19.77	41.37	456.38	1,095.70	380.02	345.60	34.42	11.041	

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 602H
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 602H	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)			
5,100.00	4,969.37	5,014.02	4,865.64	20.30	20.25	42.08	467.41	1,124.33	385.64	350.58	35.06	11.001	
5,200.00	5,065.07	5,113.75	4,960.53	20.77	20.73	42.78	478.44	1,152.96	391.31	355.62	35.69	10.965	
5,300.00	5,160.77	5,213.48	5,055.42	21.25	21.21	43.45	489.47	1,181.60	397.04	360.73	36.32	10.932	
5,400.00	5,256.47	5,313.21	5,150.31	21.72	21.69	44.11	500.51	1,210.23	402.83	365.89	36.94	10.904	
5,500.00	5,352.17	5,412.94	5,245.20	22.20	22.17	44.75	511.54	1,238.86	408.67	371.10	37.56	10.879	
5,600.00	5,447.87	5,512.66	5,340.09	22.68	22.66	45.36	522.57	1,267.49	414.55	376.37	38.18	10.858	
5,700.00	5,543.57	5,612.39	5,434.98	23.16	23.14	45.97	533.60	1,296.12	420.48	381.69	38.79	10.839	
5,800.00	5,639.27	5,712.12	5,529.87	23.64	23.63	46.55	544.63	1,324.75	426.46	387.06	39.40	10.824	
5,900.00	5,735.21	5,811.83	5,624.75	24.11	24.12	47.11	555.66	1,353.38	433.04	393.03	40.02	10.822	
6,000.00	5,832.02	5,911.43	5,719.51	24.65	24.61	47.39	566.68	1,381.97	441.90	401.11	40.79	10.833	
6,100.00	5,929.66	6,010.78	5,814.05	25.20	25.10	47.38	577.67	1,410.49	453.11	411.41	41.69	10.867	
6,200.00	6,027.98	6,109.78	5,908.24	25.73	25.59	47.10	588.62	1,438.91	466.68	423.98	42.70	10.929	
6,300.00	6,126.88	6,208.29	6,001.98	26.25	26.07	46.57	599.52	1,467.19	482.66	438.85	43.81	11.018	
6,400.00	6,226.24	6,306.20	6,095.14	26.74	26.56	45.84	610.35	1,495.30	501.12	456.12	44.99	11.138	
6,500.00	6,325.93	6,403.39	6,187.61	27.19	27.04	44.95	621.10	1,523.20	522.14	475.90	46.24	11.292	
6,600.00	6,425.83	6,499.74	6,279.29	27.59	27.52	43.93	631.76	1,550.87	545.83	498.30	47.52	11.486	
6,700.00	6,525.82	6,595.17	6,370.09	27.74	28.00	97.92	642.32	1,578.26	572.19	523.52	48.67	11.758	
6,800.00	6,625.82	6,690.32	6,460.63	27.77	28.47	96.51	652.84	1,605.58	599.58	549.86	49.72	12.060	
6,900.00	6,725.82	6,785.47	6,551.16	27.80	28.95	95.22	663.37	1,632.90	627.28	576.56	50.72	12.368	
7,000.00	6,825.82	6,887.02	6,647.84	27.84	29.44	93.96	674.54	1,661.90	655.13	603.42	51.71	12.669	
7,100.00	6,925.82	7,009.23	6,765.26	27.88	30.08	92.72	686.72	1,693.49	680.53	627.78	52.76	12.900	
7,200.00	7,025.82	7,134.27	6,886.77	27.92	30.77	91.74	697.30	1,720.95	702.25	648.57	53.68	13.082	
7,300.00	7,125.82	7,261.74	7,011.86	27.95	31.45	90.97	706.11	1,743.82	720.07	665.65	54.43	13.230	
7,400.00	7,225.82	7,391.21	7,139.88	27.99	32.10	90.40	713.00	1,761.71	733.85	678.86	54.99	13.345	
7,500.00	7,325.82	7,522.17	7,270.14	28.03	32.71	90.02	717.85	1,774.29	743.46	688.10	55.36	13.430	
7,600.00	7,425.82	7,654.11	7,401.85	28.07	33.25	89.81	720.57	1,781.34	748.81	693.30	55.51	13.491	
7,700.00	7,525.82	7,778.10	7,525.82	28.11	33.51	89.77	721.17	1,782.91	750.00	694.60	55.39	13.539	
7,800.00	7,625.82	7,878.10	7,625.82	28.15	33.53	89.77	721.17	1,782.91	750.00	694.53	55.46	13.523	
7,900.00	7,725.82	7,978.10	7,725.82	28.18	33.56	89.77	721.17	1,782.91	750.00	694.46	55.54	13.505	
8,000.00	7,825.82	8,078.10	7,825.82	28.22	33.59	89.77	721.17	1,782.91	750.00	694.39	55.61	13.487	
8,100.00	7,925.82	8,178.10	7,925.82	28.26	33.62	89.77	721.17	1,782.91	750.00	694.31	55.68	13.469	
8,200.00	8,025.82	8,278.10	8,025.82	28.30	33.65	89.77	721.17	1,782.91	750.00	694.24	55.76	13.451	
8,300.00	8,125.82	8,378.10	8,125.82	28.34	33.68	89.77	721.17	1,782.91	750.00	694.16	55.83	13.433	
8,400.00	8,225.82	8,478.10	8,225.82	28.38	33.71	89.77	721.17	1,782.91	750.00	694.09	55.91	13.415	
8,500.00	8,325.82	8,578.10	8,325.82	28.42	33.74	89.77	721.17	1,782.91	750.00	694.01	55.98	13.397	
8,600.00	8,425.82	8,678.10	8,425.82	28.46	33.77	89.77	721.17	1,782.91	750.00	693.94	56.06	13.379	
8,700.00	8,525.82	8,778.10	8,525.82	28.50	33.81	89.77	721.17	1,782.91	750.00	693.86	56.14	13.360	
8,800.00	8,625.82	8,878.10	8,625.82	28.54	33.84	89.77	721.17	1,782.91	750.00	693.78	56.21	13.342	
8,900.00	8,725.82	8,978.10	8,725.82	28.58	33.87	89.77	721.17	1,782.91	750.00	693.71	56.29	13.324	
9,000.00	8,825.82	9,078.10	8,825.82	28.62	33.90	89.77	721.17	1,782.91	750.00	693.63	56.37	13.306	
9,100.00	8,925.82	9,178.10	8,925.82	28.66	33.93	89.77	721.17	1,782.91	750.00	693.55	56.45	13.287	
9,200.00	9,025.82	9,278.10	9,025.82	28.70	33.96	89.77	721.17	1,782.91	750.00	693.47	56.52	13.269	
9,300.00	9,125.82	9,378.10	9,125.82	28.75	34.00	89.77	721.17	1,782.91	750.00	693.39	56.60	13.250	
9,400.00	9,225.82	9,478.10	9,225.82	28.79	34.03	89.77	721.17	1,782.91	750.00	693.32	56.68	13.232	
9,500.00	9,325.82	9,578.10	9,325.82	28.83	34.06	89.77	721.17	1,782.91	750.00	693.24	56.76	13.213	
9,600.00	9,425.82	9,678.10	9,425.82	28.87	34.09	89.77	721.17	1,782.91	750.00	693.16	56.84	13.195	
9,700.00	9,525.82	9,778.10	9,525.82	28.91	34.13	89.77	721.17	1,782.91	750.00	693.08	56.92	13.176	
9,800.00	9,625.82	9,878.10	9,625.82	28.95	34.16	89.77	721.17	1,782.91	750.00	693.00	57.00	13.158	
9,807.13	9,632.95	9,885.23	9,632.95	28.96	34.16	89.77	721.17	1,782.91	750.00	692.99	57.01	13.156	
9,900.00	9,725.82	9,976.05	9,723.72	29.00	34.13	89.91	719.27	1,782.98	750.06	693.02	57.04	13.149	
10,000.00	9,825.82	10,069.31	9,815.64	29.04	34.01	91.07	704.16	1,783.52	750.80	694.00	56.79	13.220	
10,100.00	9,925.82	10,155.62	9,897.51	29.08	33.88	93.13	677.08	1,784.49	753.22	696.87	56.35	13.368	

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 602H
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 602H	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					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	
10,200.00	10,025.82	10,232.36	9,966.15	29.12	33.76	95.71	642.93	1,785.71	758.89	703.05	55.84	13.590		
10,300.00	10,125.82	10,300.00	10,022.40	29.17	33.66	98.50	605.46	1,787.05	769.49	714.16	55.33	13.907		
10,400.00	10,225.82	10,350.00	10,060.93	29.21	33.58	100.83	573.64	1,788.19	786.45	731.38	55.07	14.281		
10,500.00	10,325.82	10,400.00	10,096.54	29.25	33.52	103.35	538.59	1,789.45	810.64	756.00	54.64	14.836		
10,600.00	10,425.82	10,450.00	10,128.96	29.30	33.46	106.02	500.56	1,790.81	842.53	788.44	54.09	15.576		
10,700.00	10,525.82	10,478.22	10,145.75	29.34	33.43	107.57	477.91	1,791.62	881.92	827.96	53.96	16.344		
10,800.00	10,625.82	10,500.00	10,157.93	29.38	33.40	108.78	459.86	1,792.26	928.56	874.69	53.87	17.236		
10,900.00	10,725.82	10,532.92	10,175.03	29.43	33.38	110.64	431.75	1,793.27	981.59	928.05	53.54	18.333		
11,000.00	10,825.82	10,550.00	10,183.25	29.47	33.36	111.61	416.79	1,793.81	1,040.50	987.03	53.47	19.459		
11,100.00	10,925.82	10,574.01	10,194.05	29.49	33.35	-65.30	395.36	1,794.57	1,104.35	1,051.04	53.31	20.716		
11,200.00	11,024.97	10,600.00	10,204.72	29.36	33.33	-56.74	371.68	1,795.42	1,168.68	1,115.24	53.45	21.867		
11,300.00	11,120.54	10,618.83	10,211.77	29.21	33.32	-49.91	354.23	1,796.04	1,229.66	1,175.64	54.02	22.765		
11,400.00	11,209.63	10,650.00	10,222.17	29.03	33.31	-44.17	324.87	1,797.10	1,285.54	1,230.79	54.75	23.479		
11,500.00	11,289.52	10,673.23	10,228.87	28.85	33.31	-39.96	302.65	1,797.89	1,334.77	1,279.00	55.77	23.931		
11,600.00	11,357.78	10,700.00	10,235.47	28.68	33.31	-36.77	276.72	1,798.82	1,376.26	1,319.31	56.94	24.168		
11,700.00	11,412.36	10,750.00	10,244.52	28.55	33.32	-34.35	227.59	1,800.58	1,409.37	1,351.23	58.14	24.240		
11,800.00	11,451.58	10,750.00	10,244.52	28.46	33.32	-33.02	227.59	1,800.58	1,432.77	1,373.12	59.65	24.019		
11,900.00	11,474.25	10,800.00	10,249.25	28.44	33.34	-32.16	177.87	1,802.36	1,446.27	1,385.22	61.04	23.692		
12,000.00	11,480.00	10,829.32	10,250.00	28.48	33.37	-31.98	148.58	1,803.41	1,450.19	1,387.76	62.43	23.229		
12,100.00	11,480.00	10,948.09	10,250.00	28.56	33.48	-32.03	29.83	1,805.34	1,450.82	1,387.49	63.33	22.911		
12,200.00	11,480.00	11,048.09	10,250.00	28.65	33.59	-32.03	-70.17	1,805.78	1,450.82	1,386.52	64.30	22.562		
12,300.00	11,480.00	11,148.09	10,250.00	28.76	33.72	-32.03	-170.17	1,806.23	1,450.82	1,385.52	65.30	22.216		
12,400.00	11,480.00	11,248.09	10,250.00	28.88	33.85	-32.03	-270.17	1,806.67	1,450.83	1,384.50	66.33	21.873		
12,500.00	11,480.00	11,348.09	10,250.00	29.02	34.01	-32.03	-370.17	1,807.12	1,450.83	1,383.46	67.37	21.534		
12,600.00	11,480.00	11,448.09	10,250.00	29.17	34.17	-32.03	-470.17	1,807.56	1,450.83	1,382.39	68.44	21.199		
12,700.00	11,480.00	11,548.09	10,250.00	29.33	34.35	-32.03	-570.17	1,808.00	1,450.84	1,381.31	69.52	20.869		
12,800.00	11,480.00	11,648.09	10,250.00	29.51	34.55	-32.03	-670.17	1,808.45	1,450.84	1,380.22	70.62	20.543		
12,900.00	11,480.00	11,748.09	10,250.00	29.69	34.75	-32.03	-770.17	1,808.89	1,450.84	1,379.10	71.74	20.223		
13,000.00	11,480.00	11,848.09	10,250.00	29.90	34.97	-32.03	-870.17	1,809.34	1,450.85	1,377.97	72.88	19.908		
13,100.00	11,480.00	11,948.09	10,250.00	30.11	35.20	-32.03	-970.16	1,809.78	1,450.85	1,376.82	74.03	19.599		
13,200.00	11,480.00	12,048.09	10,250.00	30.34	35.45	-32.03	-1,070.16	1,810.22	1,450.85	1,375.66	75.19	19.295		
13,300.00	11,480.00	12,148.09	10,250.00	30.58	35.70	-32.03	-1,170.16	1,810.67	1,450.85	1,374.48	76.37	18.997		
13,400.00	11,480.00	12,248.09	10,250.00	30.84	35.97	-32.03	-1,270.16	1,811.11	1,450.86	1,373.29	77.57	18.705		
13,500.00	11,480.00	12,348.09	10,250.00	31.11	36.25	-32.03	-1,370.16	1,811.55	1,450.86	1,372.09	78.77	18.418		
13,600.00	11,480.00	12,448.09	10,250.00	31.39	36.54	-32.03	-1,470.16	1,812.00	1,450.86	1,370.87	79.99	18.138		
13,700.00	11,480.00	12,548.09	10,250.00	31.68	36.84	-32.03	-1,570.16	1,812.44	1,450.87	1,369.64	81.22	17.863		
13,800.00	11,480.00	12,648.09	10,250.00	31.99	37.15	-32.03	-1,670.16	1,812.89	1,450.87	1,368.40	82.47	17.594		
13,900.00	11,480.00	12,748.09	10,250.00	32.31	37.47	-32.03	-1,770.16	1,813.33	1,450.87	1,367.16	83.72	17.330		
14,000.00	11,480.00	12,848.09	10,250.00	32.65	37.81	-32.03	-1,870.16	1,813.77	1,450.88	1,365.90	84.98	17.073		
14,100.00	11,480.00	12,948.09	10,250.00	32.99	38.15	-32.03	-1,970.15	1,814.22	1,450.88	1,364.63	86.25	16.821		
14,200.00	11,480.00	13,048.09	10,250.00	33.35	38.51	-32.03	-2,070.15	1,814.66	1,450.88	1,363.35	87.54	16.575		
14,300.00	11,480.00	13,148.09	10,250.00	33.73	38.87	-32.03	-2,170.15	1,815.11	1,450.89	1,362.06	88.83	16.334		
14,400.00	11,480.00	13,248.09	10,250.00	34.11	39.25	-32.03	-2,270.15	1,815.55	1,450.89	1,360.76	90.13	16.098		
14,500.00	11,480.00	13,348.09	10,250.00	34.51	39.63	-32.03	-2,370.15	1,815.99	1,450.89	1,359.46	91.44	15.868		
14,600.00	11,480.00	13,448.09	10,250.00	34.91	40.03	-32.03	-2,470.15	1,816.44	1,450.89	1,358.14	92.75	15.643		
14,700.00	11,480.00	13,548.09	10,250.00	35.33	40.43	-32.03	-2,570.15	1,816.88	1,450.90	1,356.82	94.08	15.423		
14,800.00	11,480.00	13,648.09	10,250.00	35.76	40.85	-32.03	-2,670.15	1,817.33	1,450.90	1,355.49	95.41	15.207		
14,900.00	11,480.00	13,748.09	10,250.00	36.21	41.27	-32.03	-2,770.15	1,817.77	1,450.90	1,354.16	96.75	14.997		
15,000.00	11,480.00	13,848.09	10,250.00	36.66	41.70	-32.03	-2,870.15	1,818.21	1,450.91	1,352.82	98.09	14.792		
15,100.00	11,480.00	13,948.09	10,250.00	37.12	42.14	-32.03	-2,970.15	1,818.66	1,450.91	1,351.47	99.44	14.591		
15,200.00	11,480.00	14,048.09	10,250.00	37.60	42.59	-32.03	-3,070.14	1,819.10	1,450.91	1,350.11	100.80	14.394		
15,300.00	11,480.00	14,148.09	10,250.00	38.08	43.05	-32.03	-3,170.14	1,819.55	1,450.92	1,348.75	102.16	14.202		

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 602H
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 602H	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					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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,400.00	11,480.00	14,248.09	10,250.00	38.57	43.51	-32.03	-3,270.14	1,819.99	1,450.92	1,347.39	103.53	14.014		
15,500.00	11,480.00	14,348.09	10,250.00	39.07	43.98	-32.03	-3,370.14	1,820.43	1,450.92	1,346.02	104.91	13.831		
15,600.00	11,480.00	14,448.09	10,250.00	39.59	44.46	-32.03	-3,470.14	1,820.88	1,450.93	1,344.64	106.28	13.651		
15,700.00	11,480.00	14,548.09	10,250.00	40.11	44.95	-32.03	-3,570.14	1,821.32	1,450.93	1,343.26	107.67	13.476		
15,800.00	11,480.00	14,648.09	10,250.00	40.63	45.45	-32.03	-3,670.14	1,821.77	1,450.93	1,341.87	109.06	13.304		
15,900.00	11,480.00	14,748.09	10,250.00	41.17	45.95	-32.03	-3,770.14	1,822.21	1,450.94	1,340.48	110.45	13.136		
16,000.00	11,480.00	14,848.09	10,250.00	41.71	46.46	-32.03	-3,870.14	1,822.65	1,450.94	1,339.09	111.85	12.972		
16,100.00	11,480.00	14,948.09	10,250.00	42.27	46.98	-32.03	-3,970.14	1,823.10	1,450.94	1,337.69	113.25	12.811		
16,200.00	11,480.00	15,048.09	10,250.00	42.82	47.50	-32.04	-4,070.13	1,823.54	1,450.94	1,336.28	114.66	12.654		
16,300.00	11,480.00	15,148.09	10,250.00	43.39	48.03	-32.04	-4,170.13	1,823.99	1,450.95	1,334.88	116.07	12.500		
16,400.00	11,480.00	15,248.09	10,250.00	43.96	48.57	-32.04	-4,270.13	1,824.43	1,450.95	1,333.46	117.49	12.350		
16,500.00	11,480.00	15,348.09	10,250.00	44.54	49.11	-32.04	-4,370.13	1,824.87	1,450.95	1,332.05	118.91	12.203		
16,600.00	11,480.00	15,448.09	10,250.00	45.13	49.66	-32.04	-4,470.13	1,825.32	1,450.96	1,330.63	120.33	12.058		
16,700.00	11,480.00	15,548.09	10,250.00	45.72	50.21	-32.04	-4,570.13	1,825.76	1,450.96	1,329.21	121.75	11.917		
16,800.00	11,480.00	15,648.09	10,250.00	46.31	50.77	-32.04	-4,670.13	1,826.21	1,450.96	1,327.78	123.18	11.779		
16,900.00	11,480.00	15,748.09	10,250.00	46.92	51.33	-32.04	-4,770.13	1,826.65	1,450.97	1,326.35	124.62	11.644		
17,000.00	11,480.00	15,848.09	10,250.00	47.52	51.90	-32.04	-4,870.13	1,827.09	1,450.97	1,324.92	126.05	11.511		
17,100.00	11,480.00	15,948.09	10,250.00	48.14	52.48	-32.04	-4,970.13	1,827.54	1,450.97	1,323.48	127.49	11.381		
17,200.00	11,480.00	16,048.09	10,250.00	48.75	53.06	-32.04	-5,070.12	1,827.98	1,450.98	1,322.05	128.93	11.254		
17,300.00	11,480.00	16,148.09	10,250.00	49.38	53.64	-32.04	-5,170.12	1,828.42	1,450.98	1,320.60	130.37	11.129		
17,400.00	11,480.00	16,248.09	10,250.00	50.00	54.23	-32.04	-5,270.12	1,828.87	1,450.98	1,319.16	131.82	11.007		
17,500.00	11,480.00	16,348.09	10,250.00	50.63	54.82	-32.04	-5,370.12	1,829.31	1,450.98	1,317.71	133.27	10.888		
17,600.00	11,480.00	16,448.09	10,250.00	51.27	55.42	-32.04	-5,470.12	1,829.76	1,450.99	1,316.27	134.72	10.770		
17,700.00	11,480.00	16,548.09	10,250.00	51.91	56.02	-32.04	-5,570.12	1,830.20	1,450.99	1,314.81	136.18	10.655		
17,800.00	11,480.00	16,648.09	10,250.00	52.55	56.63	-32.04	-5,670.12	1,830.64	1,450.99	1,313.36	137.63	10.542		
17,900.00	11,480.00	16,748.09	10,250.00	53.20	57.24	-32.04	-5,770.12	1,831.09	1,451.00	1,311.90	139.09	10.432		
18,000.00	11,480.00	16,848.09	10,250.00	53.85	57.85	-32.04	-5,870.12	1,831.53	1,451.00	1,310.45	140.55	10.323		
18,100.00	11,480.00	16,948.09	10,250.00	54.50	58.47	-32.04	-5,970.12	1,831.98	1,451.00	1,308.99	142.02	10.217		
18,200.00	11,480.00	17,048.09	10,250.00	55.16	59.09	-32.04	-6,070.11	1,832.42	1,451.01	1,307.52	143.48	10.113		
18,300.00	11,480.00	17,148.09	10,250.00	55.82	59.72	-32.04	-6,170.11	1,832.86	1,451.01	1,306.06	144.95	10.010		
18,400.00	11,480.00	17,248.09	10,250.00	56.48	60.35	-32.04	-6,270.11	1,833.31	1,451.01	1,304.59	146.42	9.910		
18,500.00	11,480.00	17,348.09	10,250.00	57.15	60.98	-32.04	-6,370.11	1,833.75	1,451.02	1,303.12	147.89	9.811		
18,600.00	11,480.00	17,448.09	10,250.00	57.82	61.61	-32.04	-6,470.11	1,834.20	1,451.02	1,301.65	149.37	9.715		
18,700.00	11,480.00	17,548.09	10,250.00	58.49	62.25	-32.04	-6,570.11	1,834.64	1,451.02	1,300.18	150.84	9.620		
18,800.00	11,480.00	17,648.09	10,250.00	59.16	62.89	-32.04	-6,670.11	1,835.08	1,451.02	1,298.71	152.32	9.526		
18,900.00	11,480.00	17,748.09	10,250.00	59.84	63.54	-32.04	-6,770.11	1,835.53	1,451.03	1,297.23	153.80	9.435		
19,000.00	11,480.00	17,848.09	10,250.00	60.52	64.18	-32.04	-6,870.11	1,835.97	1,451.03	1,295.75	155.28	9.345		
19,100.00	11,480.00	17,948.09	10,250.00	61.20	64.83	-32.04	-6,970.11	1,836.42	1,451.03	1,294.28	156.76	9.256		
19,200.00	11,480.00	18,048.09	10,250.00	61.88	65.48	-32.04	-7,070.10	1,836.86	1,451.04	1,292.80	158.24	9.170		
19,300.00	11,480.00	18,148.09	10,250.00	62.57	66.14	-32.04	-7,170.10	1,837.30	1,451.04	1,291.31	159.73	9.084		
19,400.00	11,480.00	18,248.09	10,250.00	63.26	66.80	-32.04	-7,270.10	1,837.75	1,451.04	1,289.83	161.21	9.001		
19,500.00	11,480.00	18,348.09	10,250.00	63.95	67.46	-32.04	-7,370.10	1,838.19	1,451.05	1,288.35	162.70	8.918		
19,600.00	11,480.00	18,448.09	10,250.00	64.64	68.12	-32.04	-7,470.10	1,838.64	1,451.05	1,286.86	164.19	8.838		
19,700.00	11,480.00	18,548.09	10,250.00	65.33	68.78	-32.04	-7,570.10	1,839.08	1,451.05	1,285.37	165.68	8.758		
19,800.00	11,480.00	18,648.09	10,250.00	66.03	69.45	-32.04	-7,670.10	1,839.52	1,451.06	1,283.88	167.17	8.680		
19,900.00	11,480.00	18,748.09	10,250.00	66.73	70.12	-32.04	-7,770.10	1,839.97	1,451.06	1,282.39	168.67	8.603		
20,000.00	11,480.00	18,848.09	10,250.00	67.42	70.79	-32.04	-7,870.10	1,840.41	1,451.06	1,280.90	170.16	8.528		
20,100.00	11,480.00	18,948.09	10,250.00	68.13	71.46	-32.04	-7,970.10	1,840.86	1,451.07	1,279.41	171.66	8.453		
20,200.00	11,480.00	19,048.09	10,250.00	68.83	72.14	-32.04	-8,070.09	1,841.30	1,451.07	1,277.91	173.15	8.380		
20,300.00	11,480.00	19,148.09	10,250.00	69.53	72.82	-32.04	-8,170.09	1,841.74	1,451.07	1,276.42	174.65	8.308		
20,400.00	11,480.00	19,248.09	10,250.00	70.24	73.49	-32.04	-8,270.09	1,842.19	1,451.07	1,274.92	176.15	8.238		
20,500.00	11,480.00	19,348.09	10,250.00	70.94	74.18	-32.04	-8,370.09	1,842.63	1,451.08	1,273.43	177.65	8.168		

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 602H
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 602H	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)			
20,600.00	11,480.00	19,448.09	10,250.00	71.65	74.86	-32.04	-8,470.09	1,843.08	1,451.08	1,271.93	179.15	8.100	
20,700.00	11,480.00	19,548.09	10,250.00	72.36	75.54	-32.04	-8,570.09	1,843.52	1,451.08	1,270.43	180.66	8.032	
20,800.00	11,480.00	19,648.09	10,250.00	73.07	76.23	-32.04	-8,670.09	1,843.96	1,451.09	1,268.93	182.16	7.966	
20,900.00	11,480.00	19,748.09	10,250.00	73.78	76.92	-32.04	-8,770.09	1,844.41	1,451.09	1,267.43	183.66	7.901	
21,000.00	11,480.00	19,848.09	10,250.00	74.50	77.61	-32.04	-8,870.09	1,844.85	1,451.09	1,265.92	185.17	7.837	
21,100.00	11,480.00	19,948.09	10,250.00	75.21	78.30	-32.04	-8,970.09	1,845.29	1,451.10	1,264.42	186.67	7.773	
21,200.00	11,480.00	20,048.09	10,250.00	75.93	78.99	-32.04	-9,070.09	1,845.74	1,451.10	1,262.92	188.18	7.711	
21,300.00	11,480.00	20,148.09	10,250.00	76.65	79.68	-32.05	-9,170.08	1,846.18	1,451.10	1,261.41	189.69	7.650	
21,400.00	11,480.00	20,248.09	10,250.00	77.36	80.38	-32.05	-9,270.08	1,846.63	1,451.11	1,259.91	191.20	7.589	
21,500.00	11,480.00	20,348.09	10,250.00	78.08	81.07	-32.05	-9,370.08	1,847.07	1,451.11	1,258.40	192.71	7.530	
21,600.00	11,480.00	20,448.09	10,250.00	78.80	81.77	-32.05	-9,470.08	1,847.51	1,451.11	1,256.89	194.22	7.471	
21,700.00	11,480.00	20,548.09	10,250.00	79.52	82.47	-32.05	-9,570.08	1,847.96	1,451.11	1,255.38	195.73	7.414	
21,800.00	11,480.00	20,648.09	10,250.00	80.25	83.17	-32.05	-9,670.08	1,848.40	1,451.12	1,253.87	197.24	7.357	
21,900.00	11,480.00	20,748.09	10,250.00	80.97	83.87	-32.05	-9,770.08	1,848.85	1,451.12	1,252.36	198.76	7.301	
22,000.00	11,480.00	20,848.09	10,250.00	81.69	84.58	-32.05	-9,870.08	1,849.29	1,451.12	1,250.85	200.27	7.246	
22,100.00	11,480.00	20,948.09	10,250.00	82.42	85.28	-32.05	-9,970.08	1,849.73	1,451.13	1,249.34	201.79	7.191	
22,200.00	11,480.00	21,048.09	10,250.00	83.14	85.99	-32.05	-10,070.08	1,850.18	1,451.13	1,247.83	203.30	7.138	
22,300.00	11,480.00	21,148.09	10,250.00	83.87	86.69	-32.05	-10,170.07	1,850.62	1,451.13	1,246.32	204.82	7.085	
22,400.00	11,480.00	21,248.09	10,250.00	84.60	87.40	-32.05	-10,270.07	1,851.07	1,451.14	1,244.80	206.33	7.033	
22,401.80	11,480.00	21,249.89	10,250.00	84.61	87.41	-32.05	-10,271.87	1,851.07	1,451.14	1,244.78	206.36	7.032	
22,436.41	11,480.00	21,284.08	10,250.00	84.86	87.66	-32.05	-10,306.05	1,851.23	1,451.14	1,244.25	206.89	7.014 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 602H
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 602H	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 601H - 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
0.00	0.00	0.00	0.00	0.50	0.50	0.00	40.00	0.00	40.00				
100.00	100.00	100.00	100.00	0.66	0.66	0.00	40.00	0.00	40.00	38.68	1.32	30.368	
200.00	200.00	200.00	200.00	1.35	1.35	0.00	40.00	0.00	40.00	37.30	2.70	14.830	
300.00	300.00	300.00	300.00	1.82	1.82	0.00	40.00	0.00	40.00	36.37	3.63	11.007	
400.00	400.00	400.00	400.00	2.19	2.19	0.00	40.00	0.00	40.00	35.62	4.38	9.131	
500.00	500.00	500.00	500.00	2.51	2.51	0.00	40.00	0.00	40.00	34.98	5.02	7.963	
600.00	600.00	600.00	600.00	2.80	2.80	0.00	40.00	0.00	40.00	34.40	5.60	7.147	
700.00	700.00	700.00	700.00	3.06	3.06	0.00	40.00	0.00	40.00	33.88	6.12	6.535	
800.00	800.00	800.00	800.00	3.30	3.30	0.00	40.00	0.00	40.00	33.39	6.61	6.053	
900.00	900.00	900.00	900.00	3.53	3.53	0.00	40.00	0.00	40.00	32.93	7.07	5.662	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	0.00	40.00	0.00	40.00	32.50	7.50	5.335	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	0.00	40.00	0.00	40.00	32.09	7.91	5.056	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	0.00	40.00	0.00	40.00	31.69	8.31	4.816	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	0.00	40.00	0.00	40.00	31.31	8.69	4.605	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	0.00	40.00	0.00	40.00	30.95	9.05	4.418	
1,466.67	1,466.67	1,466.67	1,466.67	4.65	4.65	0.00	40.00	0.00	40.00	30.71	9.29	4.305	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	0.00	40.00	0.00	40.00	30.59	9.41	4.251 CC, ES	
1,600.00	1,599.98	1,598.71	1,598.69	5.03	5.05	-56.31	41.58	0.62	40.62	30.65	9.96	4.077	
1,700.00	1,699.84	1,697.35	1,697.20	5.67	5.68	-59.44	46.33	2.47	42.56	31.78	10.78	3.948 SF	
1,800.00	1,799.45	1,795.88	1,795.36	6.27	6.28	-64.05	55.23	5.54	46.04	34.62	11.42	4.031	
1,900.00	1,898.70	1,894.24	1,892.99	6.84	6.84	-69.37	64.24	9.83	51.34	39.45	11.90	4.316	
2,000.00	1,997.47	1,992.97	1,990.58	7.39	7.08	-74.92	79.17	15.25	58.46	46.44	12.02	4.864	
2,100.00	2,095.62	2,092.39	2,088.77	7.93	7.30	-81.82	93.75	20.93	65.88	53.82	12.06	5.462	
2,200.00	2,193.06	2,191.55	2,186.69	8.46	7.55	-89.89	108.29	26.59	74.02	61.91	12.11	6.112	
2,300.00	2,289.64	2,290.31	2,284.22	8.99	7.81	-98.54	122.77	32.23	83.83	71.55	12.29	6.824	
2,400.00	2,385.44	2,388.66	2,381.35	9.25	8.09	-106.98	137.19	37.85	96.03	83.42	12.60	7.619	
2,500.00	2,481.14	2,486.96	2,478.42	9.52	8.38	-113.66	151.61	43.46	109.99	96.88	13.11	8.389	
2,600.00	2,576.84	2,585.25	2,575.49	9.83	8.68	-118.80	166.02	49.08	125.10	111.42	13.68	9.143	
2,700.00	2,672.54	2,683.55	2,672.56	10.15	8.99	-122.82	180.44	54.69	140.99	126.72	14.28	9.877	
2,800.00	2,768.24	2,781.85	2,769.63	10.48	9.32	-126.01	194.85	60.31	157.42	142.55	14.87	10.585	
2,900.00	2,863.94	2,880.14	2,866.71	10.83	9.65	-128.60	209.27	65.92	174.25	158.77	15.47	11.262	
3,000.00	2,959.64	2,978.44	2,963.78	11.19	9.99	-130.74	223.68	71.53	191.35	175.28	16.07	11.907	
3,100.00	3,055.34	3,076.74	3,060.85	11.56	10.34	-132.52	238.10	77.15	208.68	192.01	16.67	12.517	
3,200.00	3,151.04	3,175.03	3,157.92	11.95	10.70	-134.03	252.51	82.76	226.17	208.89	17.27	13.093	
3,300.00	3,246.75	3,273.33	3,254.99	12.34	11.06	-135.32	266.93	88.38	243.79	225.91	17.88	13.636	
3,400.00	3,342.45	3,371.63	3,352.06	12.74	11.43	-136.44	281.34	93.99	261.51	243.03	18.49	14.147	
3,500.00	3,438.15	3,469.92	3,449.14	13.14	11.80	-137.42	295.76	99.60	279.32	260.23	19.10	14.628	
3,600.00	3,533.85	3,568.22	3,546.21	13.56	12.17	-138.27	310.17	105.22	297.20	277.49	19.71	15.080	
3,700.00	3,629.55	3,666.52	3,643.28	13.98	12.55	-139.04	324.59	110.83	315.14	294.81	20.33	15.504	
3,800.00	3,725.25	3,764.81	3,740.35	14.41	12.94	-139.72	339.00	116.44	333.12	312.18	20.95	15.904	
3,900.00	3,820.95	3,863.11	3,837.42	14.84	13.32	-140.33	353.42	122.06	351.15	329.58	21.57	16.279	
4,000.00	3,916.65	3,961.41	3,934.50	15.27	13.71	-140.88	367.83	127.67	369.21	347.01	22.20	16.633	
4,100.00	4,012.35	4,059.70	4,031.57	15.71	14.11	-141.38	382.25	133.29	387.30	364.47	22.83	16.966	
4,200.00	4,108.06	4,158.00	4,128.64	16.16	14.50	-141.83	396.66	138.90	405.41	381.95	23.46	17.280	
4,300.00	4,203.76	4,256.30	4,225.71	16.61	14.90	-142.25	411.08	144.51	423.55	399.45	24.10	17.576	
4,400.00	4,299.46	4,354.60	4,322.78	17.06	15.30	-142.63	425.49	150.13	441.71	416.97	24.74	17.855	
4,500.00	4,395.16	4,452.89	4,419.85	17.51	15.71	-142.98	439.91	155.74	459.89	434.51	25.38	18.120	
4,600.00	4,490.86	4,551.19	4,516.93	17.97	16.11	-143.30	454.32	161.35	478.08	452.05	26.03	18.369	
4,700.00	4,586.56	4,649.49	4,614.00	18.43	16.52	-143.60	468.74	166.97	496.28	469.61	26.67	18.606	
4,800.00	4,682.26	4,747.78	4,711.07	18.90	16.92	-143.88	483.15	172.58	514.50	487.18	27.32	18.830	
4,900.00	4,777.96	4,846.08	4,808.14	19.36	17.33	-144.14	497.57	178.20	532.73	504.75	27.98	19.042	
5,000.00	4,873.66	4,944.38	4,905.21	19.83	17.74	-144.39	511.98	183.81	550.97	522.34	28.63	19.244	

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 602H
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 602H	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 601H - 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	
5,100.00	4,969.37	5,042.67	5,002.29	20.30	18.16	-144.62	526.40	189.42	569.21	539.93	29.29	19.435		
5,200.00	5,065.07	5,140.97	5,099.36	20.77	18.57	-144.83	540.81	195.04	587.47	557.52	29.95	19.618		
5,300.00	5,160.77	5,239.27	5,196.43	21.25	18.98	-145.03	555.23	200.65	605.73	575.13	30.61	19.791		
5,400.00	5,256.47	5,337.56	5,293.50	21.72	19.40	-145.22	569.64	206.26	624.00	592.73	31.27	19.956		
5,500.00	5,352.17	5,435.86	5,390.57	22.20	19.82	-145.40	584.06	211.88	642.28	610.34	31.93	20.114		
5,600.00	5,447.87	5,534.16	5,487.64	22.68	20.23	-145.57	598.47	217.49	660.56	627.96	32.60	20.264		
5,700.00	5,543.57	5,632.45	5,584.72	23.16	20.65	-145.72	612.89	223.11	678.85	645.58	33.27	20.407		
5,800.00	5,639.27	5,730.75	5,681.79	23.64	21.07	-145.88	627.30	228.72	697.14	663.20	33.93	20.544		
5,900.00	5,735.21	5,829.17	5,778.99	24.11	21.49	-146.12	641.74	234.34	714.76	680.18	34.58	20.672		
6,000.00	5,832.02	5,928.05	5,876.63	24.65	21.91	-146.24	656.24	239.99	729.66	694.43	35.23	20.714		
6,100.00	5,929.66	6,027.29	5,974.63	25.20	22.34	-146.18	670.79	245.66	741.69	705.86	35.83	20.699		
6,200.00	6,027.98	6,124.59	6,070.73	25.73	22.76	-145.95	684.98	251.18	750.89	714.53	36.36	20.654		
6,300.00	6,126.88	6,215.23	6,160.55	26.25	23.18	-145.75	696.31	255.60	758.08	721.27	36.81	20.593		
6,400.00	6,226.24	6,306.04	6,250.87	26.74	23.63	-145.59	705.01	258.98	763.59	726.33	37.26	20.494		
6,500.00	6,325.93	6,400.00	6,344.60	27.19	24.07	-145.48	711.19	261.39	767.42	729.71	37.71	20.351		
6,600.00	6,425.83	6,487.95	6,432.48	27.59	24.43	-145.43	714.38	262.63	769.54	731.48	38.06	20.221		
6,700.00	6,525.82	6,581.30	6,525.82	27.74	24.58	-90.22	715.12	262.92	770.01	731.84	38.17	20.173		
6,800.00	6,625.82	6,681.30	6,625.82	27.77	24.62	-90.22	715.12	262.92	770.01	731.74	38.27	20.120		
6,900.00	6,725.82	6,781.30	6,725.82	27.80	24.67	-90.22	715.12	262.92	770.01	731.62	38.38	20.060		
7,000.00	6,825.82	6,881.30	6,825.82	27.84	24.72	-90.22	715.12	262.92	770.01	731.51	38.50	20.000		
7,100.00	6,925.82	6,981.30	6,925.82	27.88	24.76	-90.22	715.12	262.92	770.01	731.39	38.62	19.940		
7,200.00	7,025.82	7,081.30	7,025.82	27.92	24.81	-90.22	715.12	262.92	770.01	731.27	38.73	19.880		
7,300.00	7,125.82	7,181.30	7,125.82	27.95	24.86	-90.22	715.12	262.92	770.01	731.16	38.85	19.820		
7,400.00	7,225.82	7,281.30	7,225.82	27.99	24.90	-90.22	715.12	262.92	770.01	731.04	38.97	19.761		
7,500.00	7,325.82	7,381.30	7,325.82	28.03	24.95	-90.22	715.12	262.92	770.01	730.92	39.08	19.701		
7,600.00	7,425.82	7,481.30	7,425.82	28.07	25.00	-90.22	715.12	262.92	770.01	730.80	39.20	19.642		
7,700.00	7,525.82	7,581.30	7,525.82	28.11	25.05	-90.22	715.12	262.92	770.01	730.69	39.32	19.584		
7,800.00	7,625.82	7,681.30	7,625.82	28.15	25.10	-90.22	715.12	262.92	770.01	730.57	39.44	19.525		
7,900.00	7,725.82	7,781.30	7,725.82	28.18	25.14	-90.22	715.12	262.92	770.01	730.45	39.56	19.467		
8,000.00	7,825.82	7,881.30	7,825.82	28.22	25.19	-90.22	715.12	262.92	770.01	730.33	39.67	19.408		
8,100.00	7,925.82	7,981.30	7,925.82	28.26	25.24	-90.22	715.12	262.92	770.01	730.21	39.79	19.350		
8,200.00	8,025.82	8,081.30	8,025.82	28.30	25.29	-90.22	715.12	262.92	770.01	730.09	39.91	19.293		
8,300.00	8,125.82	8,181.30	8,125.82	28.34	25.34	-90.22	715.12	262.92	770.01	729.98	40.03	19.235		
8,400.00	8,225.82	8,281.30	8,225.82	28.38	25.39	-90.22	715.12	262.92	770.01	729.86	40.15	19.178		
8,500.00	8,325.82	8,381.30	8,325.82	28.42	25.44	-90.22	715.12	262.92	770.01	729.74	40.27	19.121		
8,600.00	8,425.82	8,481.30	8,425.82	28.46	25.49	-90.22	715.12	262.92	770.01	729.62	40.39	19.064		
8,700.00	8,525.82	8,581.30	8,525.82	28.50	25.53	-90.22	715.12	262.92	770.01	729.50	40.51	19.008		
8,800.00	8,625.82	8,681.30	8,625.82	28.54	25.58	-90.22	715.12	262.92	770.01	729.37	40.63	18.951		
8,900.00	8,725.82	8,781.30	8,725.82	28.58	25.63	-90.22	715.12	262.92	770.01	729.25	40.75	18.895		
9,000.00	8,825.82	8,881.30	8,825.82	28.62	25.68	-90.22	715.12	262.92	770.01	729.13	40.87	18.839		
9,100.00	8,925.82	8,981.30	8,925.82	28.66	25.73	-90.22	715.12	262.92	770.01	729.01	40.99	18.783		
9,200.00	9,025.82	9,081.30	9,025.82	28.70	25.79	-90.22	715.12	262.92	770.01	728.89	41.12	18.728		
9,300.00	9,125.82	9,181.30	9,125.82	28.75	25.84	-90.22	715.12	262.92	770.01	728.77	41.24	18.673		
9,400.00	9,225.82	9,281.30	9,225.82	28.79	25.89	-90.22	715.12	262.92	770.01	728.65	41.36	18.618		
9,500.00	9,325.82	9,381.30	9,325.82	28.83	25.94	-90.22	715.12	262.92	770.01	728.52	41.48	18.563		
9,600.00	9,425.82	9,481.30	9,425.82	28.87	25.99	-90.22	715.12	262.92	770.01	728.40	41.60	18.508		
9,700.00	9,525.82	9,581.30	9,525.82	28.91	26.04	-90.22	715.12	262.92	770.01	728.28	41.73	18.454		
9,800.00	9,625.82	9,681.30	9,625.82	28.95	26.09	-90.22	715.12	262.92	770.01	728.16	41.85	18.399		
9,900.00	9,725.82	9,781.30	9,725.82	29.00	26.14	-90.22	715.12	262.92	770.01	728.03	41.97	18.346		
10,000.00	9,825.82	9,881.30	9,825.82	29.04	26.19	-90.22	715.12	262.92	770.01	727.91	42.10	18.292		
10,100.00	9,925.82	9,981.30	9,925.82	29.08	26.25	-90.22	715.12	262.92	770.01	727.79	42.22	18.238		
10,200.00	10,025.82	10,081.30	10,025.82	29.12	26.30	-90.22	715.12	262.92	770.01	727.66	42.34	18.185		

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 602H
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 602H	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 601H - 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)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	10,125.82	10,181.30	10,125.82	29.17	26.35	-90.22	715.12	262.92	770.01	727.54	42.47	18.132	
10,400.00	10,225.82	10,281.30	10,225.82	29.21	26.40	-90.22	715.12	262.92	770.01	727.41	42.59	18.079	
10,500.00	10,325.82	10,381.30	10,325.82	29.25	26.45	-90.22	715.12	262.92	770.01	727.29	42.72	18.026	
10,600.00	10,425.82	10,481.30	10,425.82	29.30	26.51	-90.22	715.12	262.92	770.01	727.17	42.84	17.974	
10,700.00	10,525.82	10,581.30	10,525.82	29.34	26.56	-90.22	715.12	262.92	770.01	727.04	42.96	17.922	
10,800.00	10,625.82	10,681.30	10,625.82	29.38	26.61	-90.22	715.12	262.92	770.01	726.92	43.09	17.870	
10,900.00	10,725.82	10,781.30	10,725.82	29.43	26.66	-90.22	715.12	262.92	770.01	726.79	43.22	17.818	
11,000.00	10,825.82	10,881.30	10,825.82	29.47	26.72	-90.22	715.12	262.92	770.01	726.67	43.34	17.766	
11,100.00	10,925.82	10,981.31	10,925.83	29.49	26.74	90.03	714.81	262.92	770.01	726.58	43.43	17.731	
11,200.00	11,024.97	11,081.37	11,025.04	29.36	26.64	90.03	702.84	262.97	770.01	726.64	43.37	17.756	
11,300.00	11,120.54	11,181.43	11,120.66	29.21	26.53	90.02	673.81	263.10	770.01	726.76	43.25	17.806	
11,400.00	11,209.63	11,281.48	11,209.78	29.03	26.38	90.02	628.61	263.30	770.01	726.92	43.08	17.873	
11,500.00	11,289.52	11,381.53	11,289.69	28.85	26.20	90.02	568.61	263.56	770.01	727.11	42.89	17.952	
11,600.00	11,357.78	11,481.58	11,357.96	28.68	26.03	90.02	495.65	263.88	770.01	727.31	42.70	18.034	
11,700.00	11,412.36	11,581.61	11,412.50	28.55	25.87	90.01	411.95	264.25	770.01	727.49	42.52	18.110	
11,800.00	11,451.58	11,681.63	11,451.68	28.46	25.74	90.01	320.06	264.65	770.01	727.63	42.37	18.172	
11,900.00	11,474.25	11,781.65	11,474.30	28.44	25.66	90.00	222.77	265.08	770.01	727.73	42.28	18.212	
12,000.00	11,480.00	11,881.65	11,480.00	28.48	25.66	90.00	123.04	265.51	770.01	727.76	42.24	18.227	
12,100.00	11,480.00	11,981.65	11,480.00	28.56	25.68	90.00	23.04	265.95	770.01	727.72	42.29	18.209	
12,200.00	11,480.00	12,081.65	11,480.00	28.65	25.70	90.00	-76.96	266.39	770.01	727.61	42.40	18.162	
12,300.00	11,480.00	12,181.65	11,480.00	28.76	25.73	90.00	-176.96	266.83	770.01	727.44	42.56	18.090	
12,400.00	11,480.00	12,281.65	11,480.00	28.88	25.77	90.00	-276.96	267.27	770.01	727.22	42.79	17.995	
12,500.00	11,480.00	12,381.65	11,480.00	29.02	25.80	90.00	-376.96	267.71	770.01	726.93	43.07	17.878	
12,600.00	11,480.00	12,481.65	11,480.00	29.17	25.85	90.00	-476.96	268.14	770.01	726.60	43.41	17.739	
12,700.00	11,480.00	12,581.65	11,480.00	29.33	25.90	90.00	-576.96	268.58	770.01	726.21	43.80	17.582	
12,800.00	11,480.00	12,681.65	11,480.00	29.51	25.96	90.00	-676.96	269.02	770.01	725.77	44.24	17.407	
12,900.00	11,480.00	12,781.65	11,480.00	29.69	26.02	90.00	-776.96	269.46	770.01	725.28	44.73	17.216	
13,000.00	11,480.00	12,881.65	11,480.00	29.90	26.09	90.00	-876.96	269.90	770.00	724.74	45.27	17.011	
13,100.00	11,480.00	12,981.65	11,480.00	30.11	26.16	90.00	-976.95	270.33	770.00	724.16	45.85	16.794	
13,200.00	11,480.00	13,081.65	11,480.00	30.34	26.25	90.00	-1,076.95	270.77	770.00	723.53	46.48	16.567	
13,300.00	11,480.00	13,181.65	11,480.00	30.58	26.34	90.00	-1,176.95	271.21	770.00	722.86	47.15	16.331	
13,400.00	11,480.00	13,281.65	11,480.00	30.84	26.44	90.00	-1,276.95	271.65	770.00	722.14	47.86	16.088	
13,500.00	11,480.00	13,381.65	11,480.00	31.11	26.56	90.00	-1,376.95	272.09	770.00	721.39	48.61	15.840	
13,600.00	11,480.00	13,481.65	11,480.00	31.39	26.68	90.00	-1,476.95	272.53	770.00	720.61	49.40	15.588	
13,700.00	11,480.00	13,581.65	11,480.00	31.68	26.82	90.00	-1,576.95	272.96	770.00	719.79	50.22	15.333	
13,800.00	11,480.00	13,681.65	11,480.00	31.99	26.97	90.00	-1,676.95	273.40	770.00	718.93	51.07	15.077	
13,900.00	11,480.00	13,781.65	11,480.00	32.31	27.14	90.00	-1,776.95	273.84	770.00	718.05	51.96	14.820	
14,000.00	11,480.00	13,881.65	11,480.00	32.65	27.33	90.00	-1,876.95	274.28	770.00	717.13	52.87	14.563	
14,100.00	11,480.00	13,981.65	11,480.00	32.99	27.54	90.00	-1,976.94	274.72	770.00	716.19	53.82	14.308	
14,200.00	11,480.00	14,081.65	11,480.00	33.35	27.77	90.00	-2,076.94	275.15	770.00	715.22	54.79	14.055	
14,300.00	11,480.00	14,181.65	11,480.00	33.73	28.03	90.00	-2,176.94	275.59	770.00	714.22	55.78	13.804	
14,400.00	11,480.00	14,281.65	11,480.00	34.11	28.31	90.00	-2,276.94	276.03	770.00	713.20	56.80	13.557	
14,500.00	11,480.00	14,381.65	11,480.00	34.51	28.62	90.00	-2,376.94	276.47	770.00	712.16	57.84	13.312	
14,600.00	11,480.00	14,481.65	11,480.00	34.91	28.96	90.00	-2,476.94	276.91	770.00	711.10	58.90	13.072	
14,700.00	11,480.00	14,581.65	11,480.00	35.33	29.32	90.00	-2,576.94	277.34	770.00	710.02	59.99	12.836	
14,800.00	11,480.00	14,681.65	11,480.00	35.76	29.72	90.00	-2,676.94	277.78	770.00	708.92	61.09	12.605	
14,900.00	11,480.00	14,781.65	11,480.00	36.21	30.14	90.00	-2,776.94	278.22	770.00	707.79	62.21	12.378	
15,000.00	11,480.00	14,881.65	11,480.00	36.66	30.59	90.00	-2,876.94	278.66	770.00	706.66	63.35	12.155	
15,100.00	11,480.00	14,981.65	11,480.00	37.12	31.06	90.00	-2,976.94	279.10	770.00	705.50	64.50	11.938	
15,200.00	11,480.00	15,081.65	11,480.00	37.60	31.56	90.00	-3,076.93	279.54	770.00	704.33	65.67	11.725	
15,300.00	11,480.00	15,181.65	11,480.00	38.08	32.07	90.00	-3,176.93	279.97	770.00	703.15	66.85	11.518	
15,400.00	11,480.00	15,281.65	11,480.00	38.57	32.61	90.00	-3,276.93	280.41	770.00	701.95	68.05	11.315	

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 602H
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 602H	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 601H - Wellbore #1 - Plan 3												Offset Site Error:	0.00 usft
Survey Program:		0-MWD+IFR1+MS				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
15,500.00	11,480.00	15,381.65	11,480.00	39.07	33.16	90.00	-3,376.93	280.85	770.00	700.74	69.26	11.117	
15,600.00	11,480.00	15,481.65	11,480.00	39.59	33.73	90.00	-3,476.93	281.29	770.00	699.52	70.49	10.924	
15,700.00	11,480.00	15,581.65	11,480.00	40.11	34.32	90.00	-3,576.93	281.73	770.00	698.28	71.72	10.736	
15,800.00	11,480.00	15,681.65	11,480.00	40.63	34.92	90.00	-3,676.93	282.16	770.00	697.03	72.97	10.552	
15,900.00	11,480.00	15,781.65	11,480.00	41.17	35.52	90.00	-3,776.93	282.60	770.00	695.78	74.23	10.374	
16,000.00	11,480.00	15,881.65	11,480.00	41.71	36.14	90.00	-3,876.93	283.04	770.00	694.51	75.49	10.200	
16,100.00	11,480.00	15,981.65	11,480.00	42.27	36.77	90.00	-3,976.93	283.48	770.00	693.23	76.77	10.030	
16,200.00	11,480.00	16,081.65	11,480.00	42.82	37.41	90.00	-4,076.92	283.92	770.00	691.94	78.06	9.864	
16,300.00	11,480.00	16,181.65	11,480.00	43.39	38.05	90.00	-4,176.92	284.36	770.00	690.65	79.35	9.703	
16,400.00	11,480.00	16,281.65	11,480.00	43.96	38.71	90.00	-4,276.92	284.79	770.00	689.35	80.66	9.547	
16,500.00	11,480.00	16,381.65	11,480.00	44.54	39.36	90.00	-4,376.92	285.23	770.00	688.03	81.97	9.394	
16,600.00	11,480.00	16,481.65	11,480.00	45.13	40.03	90.00	-4,476.92	285.67	770.00	686.71	83.29	9.245	
16,700.00	11,480.00	16,581.65	11,480.00	45.72	40.70	90.00	-4,576.92	286.11	770.00	685.39	84.62	9.100	
16,800.00	11,480.00	16,681.65	11,480.00	46.31	41.37	90.00	-4,676.92	286.55	770.00	684.05	85.95	8.959	
16,900.00	11,480.00	16,781.65	11,480.00	46.92	42.05	90.00	-4,776.92	286.98	770.00	682.71	87.29	8.821	
17,000.00	11,480.00	16,881.65	11,480.00	47.52	42.74	90.00	-4,876.92	287.42	770.00	681.37	88.64	8.687	
17,100.00	11,480.00	16,981.65	11,480.00	48.14	43.42	90.00	-4,976.92	287.86	770.00	680.01	89.99	8.557	
17,200.00	11,480.00	17,081.65	11,480.00	48.75	44.11	90.00	-5,076.92	288.30	770.00	678.65	91.35	8.429	
17,300.00	11,480.00	17,181.65	11,480.00	49.38	44.81	90.00	-5,176.91	288.74	770.00	677.29	92.71	8.305	
17,400.00	11,480.00	17,281.65	11,480.00	50.00	45.51	90.00	-5,276.91	289.18	770.00	675.92	94.08	8.184	
17,500.00	11,480.00	17,381.65	11,480.00	50.63	46.21	90.00	-5,376.91	289.61	770.00	674.55	95.46	8.066	
17,600.00	11,480.00	17,481.65	11,480.00	51.27	46.91	90.00	-5,476.91	290.05	770.00	673.17	96.84	7.952	
17,700.00	11,480.00	17,581.65	11,480.00	51.91	47.62	90.00	-5,576.91	290.49	770.00	671.78	98.22	7.839	
17,800.00	11,480.00	17,681.65	11,480.00	52.55	48.32	90.00	-5,676.91	290.93	770.00	670.39	99.61	7.730	
17,900.00	11,480.00	17,781.65	11,480.00	53.20	49.04	90.00	-5,776.91	291.37	770.00	669.00	101.00	7.624	
18,000.00	11,480.00	17,881.65	11,480.00	53.85	49.75	90.00	-5,876.91	291.80	770.00	667.60	102.40	7.520	
18,100.00	11,480.00	17,981.65	11,480.00	54.50	50.46	90.00	-5,976.91	292.24	770.00	666.20	103.80	7.418	
18,200.00	11,480.00	18,081.65	11,480.00	55.16	51.18	90.00	-6,076.91	292.68	770.00	664.80	105.21	7.319	
18,300.00	11,480.00	18,181.65	11,480.00	55.82	51.90	90.00	-6,176.90	293.12	770.00	663.39	106.61	7.222	
18,400.00	11,480.00	18,281.65	11,480.00	56.48	52.62	90.00	-6,276.90	293.56	770.00	661.98	108.03	7.128	
18,500.00	11,480.00	18,381.65	11,480.00	57.15	53.34	90.00	-6,376.90	294.00	770.00	660.56	109.44	7.036	
18,600.00	11,480.00	18,481.65	11,480.00	57.82	54.07	90.00	-6,476.90	294.43	770.00	659.14	110.86	6.946	
18,700.00	11,480.00	18,581.65	11,480.00	58.49	54.79	90.00	-6,576.90	294.87	770.00	657.72	112.28	6.858	
18,800.00	11,480.00	18,681.65	11,480.00	59.16	55.52	90.00	-6,676.90	295.31	770.00	656.29	113.71	6.772	
18,900.00	11,480.00	18,781.65	11,480.00	59.84	56.25	90.00	-6,776.90	295.75	770.00	654.87	115.14	6.688	
19,000.00	11,480.00	18,881.65	11,480.00	60.52	56.98	90.00	-6,876.90	296.19	770.00	653.44	116.57	6.606	
19,100.00	11,480.00	18,981.65	11,480.00	61.20	57.71	90.00	-6,976.90	296.62	770.00	652.00	118.00	6.525	
19,200.00	11,480.00	19,081.65	11,480.00	61.88	58.44	90.00	-7,076.90	297.06	770.00	650.57	119.44	6.447	
19,300.00	11,480.00	19,181.65	11,480.00	62.57	59.17	90.00	-7,176.90	297.50	770.00	649.13	120.87	6.370	
19,400.00	11,480.00	19,281.65	11,480.00	63.26	59.90	90.00	-7,276.89	297.94	770.00	647.69	122.32	6.295	
19,500.00	11,480.00	19,381.65	11,480.00	63.95	60.64	90.00	-7,376.89	298.38	770.00	646.24	123.76	6.222	
19,600.00	11,480.00	19,481.65	11,480.00	64.64	61.37	90.00	-7,476.89	298.82	770.00	644.80	125.20	6.150	
19,700.00	11,480.00	19,581.65	11,480.00	65.33	62.11	90.00	-7,576.89	299.25	770.00	643.35	126.65	6.080	
19,800.00	11,480.00	19,681.65	11,480.00	66.03	62.85	90.00	-7,676.89	299.69	770.00	641.90	128.10	6.011	
19,900.00	11,480.00	19,781.65	11,480.00	66.73	63.59	90.00	-7,776.89	300.13	770.00	640.45	129.55	5.943	
20,000.00	11,480.00	19,881.65	11,480.00	67.42	64.33	90.00	-7,876.89	300.57	770.00	638.99	131.01	5.878	
20,100.00	11,480.00	19,981.65	11,480.00	68.13	65.07	90.00	-7,976.89	301.01	770.00	637.54	132.46	5.813	
20,200.00	11,480.00	20,081.65	11,480.00	68.83	65.81	90.00	-8,076.89	301.44	770.00	636.08	133.92	5.750	
20,300.00	11,480.00	20,181.65	11,480.00	69.53	66.55	90.00	-8,176.89	301.88	770.00	634.62	135.38	5.688	
20,400.00	11,480.00	20,281.65	11,480.00	70.24	67.29	90.00	-8,276.88	302.32	770.00	633.16	136.84	5.627	
20,500.00	11,480.00	20,381.65	11,480.00	70.94	68.03	90.00	-8,376.88	302.76	770.00	631.70	138.30	5.567	
20,600.00	11,480.00	20,481.65	11,480.00	71.65	68.78	90.00	-8,476.88	303.20	770.00	630.23	139.77	5.509	

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 602H
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 602H	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 601H - 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	20,581.65	11,480.00	72.36	69.52	90.00	-8,576.88	303.63	770.00	628.77	141.24	5.452	
20,800.00	11,480.00	20,681.65	11,480.00	73.07	70.27	90.00	-8,676.88	304.07	770.00	627.30	142.70	5.396	
20,900.00	11,480.00	20,781.65	11,480.00	73.78	71.01	90.00	-8,776.88	304.51	770.00	625.83	144.17	5.341	
21,000.00	11,480.00	20,881.65	11,480.00	74.50	71.76	90.00	-8,876.88	304.95	770.00	624.36	145.64	5.287	
21,100.00	11,480.00	20,981.65	11,480.00	75.21	72.50	90.00	-8,976.88	305.39	770.00	622.89	147.12	5.234	
21,200.00	11,480.00	21,081.65	11,480.00	75.93	73.25	90.00	-9,076.88	305.83	770.00	621.41	148.59	5.182	
21,300.00	11,480.00	21,181.65	11,480.00	76.65	74.00	90.00	-9,176.88	306.26	770.00	619.94	150.06	5.131	
21,400.00	11,480.00	21,281.65	11,480.00	77.36	74.75	90.00	-9,276.87	306.70	770.00	618.46	151.54	5.081	
21,500.00	11,480.00	21,381.65	11,480.00	78.08	75.50	90.00	-9,376.87	307.14	770.00	616.98	153.02	5.032	
21,600.00	11,480.00	21,481.65	11,480.00	78.80	76.24	90.00	-9,476.87	307.58	770.00	615.51	154.49	4.984	
21,700.00	11,480.00	21,581.65	11,480.00	79.52	76.99	90.00	-9,576.87	308.02	770.00	614.03	155.97	4.937	
21,800.00	11,480.00	21,681.65	11,480.00	80.25	77.74	90.00	-9,676.87	308.45	770.00	612.55	157.46	4.890	
21,900.00	11,480.00	21,781.65	11,480.00	80.97	78.49	90.00	-9,776.87	308.89	770.00	611.06	158.94	4.845	
22,000.00	11,480.00	21,881.65	11,480.00	81.69	79.24	90.00	-9,876.87	309.33	770.00	609.58	160.42	4.800	
22,100.00	11,480.00	21,981.65	11,480.00	82.42	80.00	90.00	-9,976.87	309.77	770.00	608.10	161.90	4.756	
22,200.00	11,480.00	22,081.65	11,480.00	83.14	80.75	90.00	-10,076.87	310.21	770.00	606.61	163.39	4.713	
22,300.00	11,480.00	22,181.65	11,480.00	83.87	81.50	90.00	-10,176.87	310.65	770.00	605.12	164.88	4.670	
22,400.00	11,480.00	22,281.65	11,480.00	84.60	82.25	90.00	-10,276.87	311.08	770.00	603.64	166.36	4.628	
22,436.41	11,480.00	22,318.06	11,480.00	84.86	82.52	90.00	-10,313.28	311.24	770.00	603.10	166.90	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 602H
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 602H	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	81.87	40.00	280.00	282.84				
100.00	100.00	100.00	100.00	0.66	0.66	81.87	40.00	280.00	282.84	281.53	1.32	214.734	
200.00	200.00	200.00	200.00	1.35	1.35	81.87	40.00	280.00	282.84	280.15	2.70	104.865	
300.00	300.00	300.00	300.00	1.82	1.82	81.87	40.00	280.00	282.84	279.21	3.63	77.829	
400.00	400.00	400.00	400.00	2.19	2.19	81.87	40.00	280.00	282.84	278.46	4.38	64.563	
500.00	500.00	500.00	500.00	2.51	2.51	81.87	40.00	280.00	282.84	277.82	5.02	56.309	
600.00	600.00	600.00	600.00	2.80	2.80	81.87	40.00	280.00	282.84	277.25	5.60	50.538	
700.00	700.00	700.00	700.00	3.06	3.06	81.87	40.00	280.00	282.84	276.72	6.12	46.208	
800.00	800.00	800.00	800.00	3.30	3.30	81.87	40.00	280.00	282.84	276.23	6.61	42.803	
900.00	900.00	900.00	900.00	3.53	3.53	81.87	40.00	280.00	282.84	275.78	7.07	40.033	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	81.87	40.00	280.00	282.84	275.34	7.50	37.722	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	81.87	40.00	280.00	282.84	274.93	7.91	35.754	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	81.87	40.00	280.00	282.84	274.54	8.31	34.052	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	81.87	40.00	280.00	282.84	274.16	8.69	32.561	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	81.87	40.00	280.00	282.84	273.79	9.05	31.240	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	81.87	40.00	280.00	282.84	273.43	9.41	30.058	
1,600.00	1,599.98	1,596.39	1,596.37	5.03	4.90	27.15	38.60	280.81	281.92	272.10	9.82	28.721	
1,700.00	1,699.84	1,692.42	1,692.28	5.67	5.49	28.56	34.41	283.23	279.27	268.71	10.56	26.451	
1,800.00	1,799.45	1,786.37	1,785.92	6.27	5.69	30.84	27.95	287.22	275.33	264.20	11.13	24.735	
1,900.00	1,898.70	1,878.18	1,877.36	6.84	5.87	33.31	22.57	293.36	271.39	259.63	11.76	23.069	
2,000.00	1,997.47	1,970.27	1,968.98	7.39	6.21	35.88	18.91	301.90	267.75	255.36	12.40	21.601	
2,100.00	2,095.62	2,062.67	2,060.70	7.93	6.58	38.53	16.99	312.87	264.45	251.40	13.05	20.261	
2,200.00	2,193.06	2,155.38	2,152.43	8.46	6.89	41.27	16.83	326.27	261.53	247.78	13.75	19.017	
2,300.00	2,289.64	2,248.41	2,244.08	8.99	7.12	44.08	18.46	342.11	259.02	244.56	14.46	17.913	
2,400.00	2,385.44	2,341.83	2,335.62	9.25	7.36	46.86	21.88	360.43	257.34	242.39	14.95	17.219	
2,418.33	2,402.98	2,359.02	2,352.40	9.30	7.43	47.33	22.70	364.06	257.29	242.25	15.04	17.107 CC, ES	
2,500.00	2,481.14	2,435.81	2,427.11	9.52	7.79	49.20	27.13	381.27	258.15	242.70	15.46	16.703	
2,600.00	2,576.84	2,530.19	2,518.28	9.83	8.27	50.97	34.23	404.61	261.38	245.38	16.00	16.335	
2,700.00	2,672.54	2,624.78	2,608.83	10.15	8.76	52.16	43.16	430.40	266.77	250.22	16.55	16.122	
2,800.00	2,768.24	2,719.35	2,698.47	10.48	9.20	52.77	53.91	458.55	274.14	257.05	17.09	16.039	
2,900.00	2,863.94	2,818.62	2,791.97	10.83	9.50	53.05	66.27	489.51	282.59	264.99	17.60	16.054	
3,000.00	2,959.64	2,918.25	2,885.82	11.19	9.82	53.32	78.68	520.59	291.05	272.90	18.15	16.034	
3,100.00	3,055.34	3,017.88	2,979.66	11.56	10.17	53.57	91.08	551.67	299.52	280.80	18.72	15.999	
3,200.00	3,151.04	3,117.51	3,073.51	11.95	10.52	53.81	103.49	582.75	307.99	288.69	19.30	15.955	
3,300.00	3,246.75	3,217.14	3,167.35	12.34	10.89	54.04	115.90	613.82	316.47	296.57	19.90	15.905	
3,400.00	3,342.45	3,316.78	3,261.19	12.74	11.27	54.25	128.31	644.90	324.95	304.45	20.50	15.849	
3,500.00	3,438.15	3,416.41	3,355.04	13.14	11.66	54.46	140.72	675.98	333.44	312.32	21.12	15.789	
3,600.00	3,533.85	3,516.04	3,448.88	13.56	12.06	54.65	153.13	707.06	341.93	320.19	21.74	15.727	
3,700.00	3,629.55	3,615.67	3,542.73	13.98	12.47	54.84	165.54	738.13	350.43	328.06	22.37	15.663	
3,800.00	3,725.25	3,715.31	3,636.57	14.41	12.89	55.01	177.95	769.21	358.93	335.92	23.01	15.598	
3,900.00	3,820.95	3,814.94	3,730.42	14.84	13.31	55.18	190.36	800.29	367.43	343.77	23.66	15.533	
4,000.00	3,916.65	3,914.57	3,824.26	15.27	13.74	55.34	202.77	831.37	375.93	351.63	24.31	15.467	
4,100.00	4,012.35	4,014.20	3,918.11	15.71	14.18	55.49	215.17	862.44	384.44	359.48	24.96	15.402	
4,200.00	4,108.06	4,113.84	4,011.95	16.16	14.62	55.64	227.58	893.52	392.95	367.33	25.62	15.338	
4,300.00	4,203.76	4,213.47	4,105.80	16.61	15.06	55.78	239.99	924.60	401.46	375.18	26.28	15.274	
4,400.00	4,299.46	4,313.10	4,199.64	17.06	15.51	55.91	252.40	955.68	409.98	383.03	26.95	15.212	
4,500.00	4,395.16	4,412.73	4,293.48	17.51	15.97	56.04	264.81	986.75	418.50	390.87	27.62	15.150	
4,600.00	4,490.86	4,512.36	4,387.33	17.97	16.43	56.17	277.22	1,017.83	427.02	398.72	28.30	15.090	
4,700.00	4,586.56	4,612.00	4,481.17	18.43	16.89	56.28	289.63	1,048.91	435.54	406.56	28.98	15.031	
4,800.00	4,682.26	4,711.63	4,575.02	18.90	17.35	56.40	302.04	1,079.99	444.06	414.40	29.66	14.974	
4,900.00	4,777.96	4,811.26	4,668.86	19.36	17.82	56.51	314.45	1,111.06	452.58	422.25	30.34	14.918	
5,000.00	4,873.66	4,910.89	4,762.71	19.83	18.29	56.61	326.86	1,142.14	461.11	430.09	31.02	14.864	

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 602H
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 602H	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)			
5,100.00	4,969.37	5,010.53	4,856.55	20.30	18.77	56.72	339.26	1,173.22	469.64	437.93	31.71	14.811	
5,200.00	5,065.07	5,110.16	4,950.40	20.77	19.24	56.81	351.67	1,204.30	478.17	445.77	32.40	14.759	
5,300.00	5,160.77	5,209.79	5,044.24	21.25	19.72	56.91	364.08	1,235.38	486.70	453.61	33.09	14.709	
5,400.00	5,256.47	5,309.42	5,138.09	21.72	20.20	57.00	376.49	1,266.45	495.23	461.45	33.78	14.660	
5,500.00	5,352.17	5,409.06	5,231.93	22.20	20.69	57.09	388.90	1,297.53	503.76	469.29	34.48	14.612	
5,600.00	5,447.87	5,508.69	5,325.77	22.68	21.17	57.18	401.31	1,328.61	512.30	477.12	35.17	14.566	
5,700.00	5,543.57	5,608.32	5,419.62	23.16	21.66	57.26	413.72	1,359.69	520.83	484.96	35.87	14.521	
5,800.00	5,639.27	5,707.95	5,513.46	23.64	22.15	57.34	426.13	1,390.76	529.37	492.80	36.57	14.477	
5,900.00	5,735.21	5,807.55	5,607.27	24.11	22.64	57.45	438.53	1,421.83	538.35	501.08	37.27	14.445	
6,000.00	5,832.02	5,906.92	5,700.87	24.65	23.13	57.34	450.91	1,452.83	549.11	511.01	38.11	14.409	
6,100.00	5,929.66	6,005.95	5,794.15	25.20	23.62	56.98	463.24	1,483.72	561.79	522.73	39.06	14.383	
6,200.00	6,027.98	6,104.52	5,886.99	25.73	24.10	56.38	475.52	1,514.46	576.43	536.33	40.10	14.375	
6,300.00	6,126.88	6,202.50	5,979.28	26.25	24.59	55.58	487.72	1,545.02	593.15	551.92	41.23	14.387	
6,400.00	6,226.24	6,299.78	6,070.91	26.74	25.08	54.62	499.84	1,575.37	612.06	569.63	42.43	14.425	
6,500.00	6,325.93	6,396.24	6,161.76	27.19	25.56	53.52	511.85	1,605.45	633.29	589.60	43.69	14.494	
6,600.00	6,425.83	6,491.75	6,251.73	27.59	26.04	52.31	523.75	1,635.25	656.99	612.00	44.99	14.602	
6,700.00	6,525.82	6,586.25	6,340.74	27.74	26.51	106.12	535.52	1,664.72	683.21	637.03	46.18	14.794	
6,800.00	6,625.82	6,680.44	6,429.46	27.77	26.98	104.49	547.25	1,694.10	710.58	663.29	47.30	15.024	
6,900.00	6,725.82	6,774.63	6,518.18	27.80	27.46	102.98	558.98	1,723.48	738.46	690.10	48.37	15.269	
7,000.00	6,825.82	6,868.82	6,606.90	27.84	27.93	101.57	570.71	1,752.87	766.80	717.41	49.39	15.526	
7,100.00	6,925.82	6,963.01	6,695.62	27.88	28.41	100.26	582.44	1,782.25	795.55	745.18	50.37	15.794	
7,200.00	7,025.82	7,057.20	6,784.33	27.92	28.88	99.05	594.17	1,811.63	824.66	773.35	51.31	16.071	
7,300.00	7,125.82	7,151.39	6,873.05	27.95	29.36	97.91	605.91	1,841.01	854.10	801.88	52.23	16.354	
7,400.00	7,225.82	7,245.58	6,961.77	27.99	29.84	96.84	617.64	1,870.39	883.84	830.73	53.11	16.642	
7,500.00	7,325.82	7,339.78	7,050.49	28.03	30.31	95.85	629.37	1,899.77	913.84	859.88	53.96	16.935	
7,600.00	7,425.82	7,433.97	7,139.21	28.07	30.79	94.91	641.10	1,929.15	944.09	889.29	54.79	17.230	
7,700.00	7,525.82	7,528.16	7,227.93	28.11	31.27	94.04	652.83	1,958.53	974.55	918.95	55.60	17.527	
7,800.00	7,625.82	7,636.84	7,320.42	28.15	31.83	93.10	666.24	1,992.12	1,004.99	948.50	56.49	17.790	
7,900.00	7,725.82	7,778.60	7,465.74	28.18	32.60	92.08	681.88	2,031.27	1,032.31	974.78	57.53	17.944	
8,000.00	7,825.82	7,924.46	7,606.99	28.22	33.41	91.26	695.35	2,065.03	1,055.30	996.87	58.42	18.063	
8,100.00	7,925.82	8,073.82	7,753.35	28.26	34.20	90.64	706.37	2,092.62	1,073.71	1,014.59	59.12	18.162	
8,200.00	8,025.82	8,225.97	7,903.82	28.30	34.96	90.18	714.68	2,113.41	1,087.36	1,027.76	59.60	18.244	
8,300.00	8,125.82	8,380.11	8,057.26	28.34	35.66	89.90	720.05	2,126.88	1,096.11	1,036.26	59.85	18.315	
8,400.00	8,225.82	8,535.38	8,212.39	28.38	36.19	89.78	722.37	2,132.68	1,099.85	1,040.09	59.76	18.403	
8,500.00	8,325.82	8,648.81	8,325.82	28.42	36.26	89.77	722.46	2,132.91	1,100.00	1,040.29	59.70	18.424	
8,600.00	8,425.82	8,748.81	8,425.82	28.46	36.29	89.77	722.46	2,132.91	1,100.00	1,040.23	59.77	18.403	
8,700.00	8,525.82	8,848.81	8,525.82	28.50	36.32	89.77	722.46	2,132.91	1,100.00	1,040.16	59.84	18.381	
8,800.00	8,625.82	8,948.81	8,625.82	28.54	36.34	89.77	722.46	2,132.91	1,100.00	1,040.08	59.91	18.360	
8,900.00	8,725.82	9,048.81	8,725.82	28.58	36.37	89.77	722.46	2,132.91	1,100.00	1,040.01	59.99	18.338	
9,000.00	8,825.82	9,148.81	8,825.82	28.62	36.40	89.77	722.46	2,132.91	1,100.00	1,039.94	60.06	18.316	
9,100.00	8,925.82	9,248.81	8,925.82	28.66	36.42	89.77	722.46	2,132.91	1,100.00	1,039.87	60.13	18.294	
9,200.00	9,025.82	9,348.81	9,025.82	28.70	36.45	89.77	722.46	2,132.91	1,100.00	1,039.80	60.20	18.272	
9,300.00	9,125.82	9,448.81	9,125.82	28.75	36.48	89.77	722.46	2,132.91	1,100.00	1,039.72	60.27	18.250	
9,400.00	9,225.82	9,548.81	9,225.82	28.79	36.50	89.77	722.46	2,132.91	1,100.00	1,039.65	60.35	18.228	
9,500.00	9,325.82	9,648.81	9,325.82	28.83	36.53	89.77	722.46	2,132.91	1,100.00	1,039.58	60.42	18.206	
9,600.00	9,425.82	9,748.81	9,425.82	28.87	36.56	89.77	722.46	2,132.91	1,100.00	1,039.50	60.49	18.184	
9,700.00	9,525.82	9,848.81	9,525.82	28.91	36.59	89.77	722.46	2,132.91	1,100.00	1,039.43	60.57	18.161	
9,800.00	9,625.82	9,948.81	9,625.82	28.95	36.62	89.77	722.46	2,132.91	1,100.00	1,039.36	60.64	18.139	
9,900.00	9,725.82	10,048.81	9,725.82	29.00	36.64	89.77	722.46	2,132.91	1,100.00	1,039.28	60.72	18.117	
10,000.00	9,825.82	10,148.81	9,825.82	29.04	36.67	89.77	722.46	2,132.91	1,100.00	1,039.21	60.79	18.094	
10,100.00	9,925.82	10,248.81	9,925.82	29.08	36.70	89.77	722.46	2,132.91	1,100.00	1,039.13	60.87	18.072	
10,200.00	10,025.82	10,348.81	10,025.82	29.12	36.73	89.77	722.46	2,132.91	1,100.00	1,039.05	60.94	18.049	

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 602H
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 602H	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:												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	
10,300.00	10,125.82	10,448.82	10,125.82	29.17	36.76	89.77	722.46	2,132.91	1,100.00	1,038.98	61.02	18.027	
10,400.00	10,225.82	10,548.82	10,225.82	29.21	36.79	89.77	722.46	2,132.91	1,100.00	1,038.90	61.10	18.004	
10,500.00	10,325.82	10,648.82	10,325.82	29.25	36.82	89.77	722.46	2,132.91	1,100.00	1,038.82	61.17	17.982	
10,600.00	10,425.82	10,748.82	10,425.82	29.30	36.85	89.77	722.46	2,132.91	1,100.00	1,038.75	61.25	17.959	
10,700.00	10,525.82	10,848.82	10,525.82	29.34	36.88	89.77	722.46	2,132.91	1,100.00	1,038.67	61.33	17.936	
10,800.00	10,625.82	10,948.82	10,625.82	29.38	36.91	89.77	722.46	2,132.91	1,100.00	1,038.59	61.41	17.914	
10,900.00	10,725.82	11,048.82	10,725.82	29.43	36.94	89.77	722.46	2,132.91	1,100.00	1,038.51	61.48	17.891	
11,000.00	10,825.82	11,148.82	10,825.82	29.47	36.97	89.77	722.46	2,132.91	1,100.00	1,038.44	61.56	17.868	
11,100.00	10,925.82	11,248.80	10,925.80	29.49	36.98	-89.97	722.15	2,132.91	1,100.00	1,038.38	61.62	17.852	
11,200.00	11,024.97	11,348.71	11,024.87	29.36	36.88	-89.97	710.21	2,132.96	1,100.00	1,038.42	61.58	17.863	
11,300.00	11,120.54	11,448.63	11,120.37	29.21	36.75	-89.98	681.27	2,133.09	1,100.00	1,038.49	61.51	17.884	
11,400.00	11,209.63	11,548.55	11,209.40	29.03	36.62	-89.98	636.18	2,133.29	1,100.00	1,038.59	61.41	17.914	
11,500.00	11,289.52	11,648.48	11,289.27	28.85	36.49	-89.98	576.33	2,133.55	1,100.00	1,038.71	61.29	17.949	
11,600.00	11,357.78	11,748.42	11,357.54	28.68	36.38	-89.98	503.52	2,133.87	1,100.00	1,038.84	61.16	17.985	
11,700.00	11,412.36	11,848.37	11,412.15	28.55	36.30	-89.99	419.96	2,134.24	1,100.00	1,038.95	61.04	18.020	
11,799.93	11,451.55	11,948.27	11,451.41	28.46	36.25	-89.99	328.24	2,134.64	1,100.00	1,039.05	60.95	18.047	
11,800.00	11,451.58	11,948.34	11,451.43	28.46	36.25	-89.99	328.17	2,134.64	1,100.00	1,039.05	60.95	18.047	
11,900.00	11,474.25	12,048.32	11,474.18	28.44	36.25	-90.00	230.95	2,135.06	1,100.00	1,039.11	60.89	18.065	
12,000.00	11,480.00	12,148.32	11,480.00	28.48	36.29	-90.00	131.23	2,135.50	1,100.00	1,039.13	60.87	18.071	
12,100.00	11,480.00	12,248.32	11,480.00	28.56	36.37	-90.00	31.23	2,135.94	1,100.00	1,039.10	60.90	18.062	
12,200.00	11,480.00	12,348.32	11,480.00	28.65	36.46	-90.00	-68.77	2,136.38	1,100.00	1,039.02	60.98	18.039	
12,300.00	11,480.00	12,448.32	11,480.00	28.76	36.57	-90.00	-168.77	2,136.81	1,100.00	1,038.90	61.10	18.004	
12,400.00	11,480.00	12,548.32	11,480.00	28.88	36.70	-90.00	-268.77	2,137.25	1,100.00	1,038.74	61.25	17.958	
12,500.00	11,480.00	12,648.32	11,480.00	29.02	36.84	-90.00	-368.77	2,137.69	1,100.00	1,038.55	61.45	17.901	
12,600.00	11,480.00	12,748.32	11,480.00	29.17	36.99	-90.00	-468.77	2,138.13	1,100.00	1,038.31	61.69	17.832	
12,700.00	11,480.00	12,848.32	11,480.00	29.33	37.16	-90.00	-568.76	2,138.57	1,100.00	1,038.04	61.96	17.754	
12,800.00	11,480.00	12,948.32	11,480.00	29.51	37.34	-90.00	-668.76	2,139.01	1,100.00	1,037.73	62.27	17.665	
12,900.00	11,480.00	13,048.32	11,480.00	29.69	37.54	-90.00	-768.76	2,139.44	1,100.00	1,037.38	62.62	17.567	
13,000.00	11,480.00	13,148.32	11,480.00	29.90	37.75	-90.00	-868.76	2,139.88	1,100.00	1,037.00	63.00	17.459	
13,100.00	11,480.00	13,248.32	11,480.00	30.11	37.97	-90.00	-968.76	2,140.32	1,100.00	1,036.57	63.42	17.344	
13,200.00	11,480.00	13,348.32	11,480.00	30.34	38.20	-90.00	-1,068.76	2,140.76	1,100.00	1,036.12	63.88	17.220	
13,300.00	11,480.00	13,448.32	11,480.00	30.58	38.45	-90.00	-1,168.76	2,141.20	1,100.00	1,035.63	64.37	17.089	
13,400.00	11,480.00	13,548.32	11,480.00	30.84	38.71	-90.00	-1,268.76	2,141.63	1,100.00	1,035.11	64.89	16.951	
13,500.00	11,480.00	13,648.32	11,480.00	31.11	38.98	-90.00	-1,368.76	2,142.07	1,100.00	1,034.55	65.45	16.807	
13,600.00	11,480.00	13,748.32	11,480.00	31.39	39.27	-90.00	-1,468.76	2,142.51	1,100.00	1,033.96	66.04	16.658	
13,700.00	11,480.00	13,848.32	11,480.00	31.68	39.56	-90.00	-1,568.76	2,142.95	1,100.00	1,033.35	66.65	16.503	
13,800.00	11,480.00	13,948.32	11,480.00	31.99	39.87	-90.00	-1,668.75	2,143.39	1,100.00	1,032.70	67.30	16.344	
13,900.00	11,480.00	14,048.32	11,480.00	32.31	40.18	-90.00	-1,768.75	2,143.82	1,100.00	1,032.02	67.98	16.182	
14,000.00	11,480.00	14,148.32	11,480.00	32.65	40.51	-90.00	-1,868.75	2,144.26	1,100.00	1,031.32	68.68	16.016	
14,100.00	11,480.00	14,248.32	11,480.00	32.99	40.85	-90.00	-1,968.75	2,144.70	1,100.00	1,030.58	69.41	15.847	
14,200.00	11,480.00	14,348.32	11,480.00	33.35	41.20	-90.00	-2,068.75	2,145.14	1,100.00	1,029.83	70.17	15.676	
14,300.00	11,480.00	14,448.32	11,480.00	33.73	41.55	-90.00	-2,168.75	2,145.58	1,100.00	1,029.04	70.96	15.503	
14,400.00	11,480.00	14,548.32	11,480.00	34.11	41.92	-90.00	-2,268.75	2,146.02	1,100.00	1,028.23	71.76	15.328	
14,500.00	11,480.00	14,648.32	11,480.00	34.51	42.30	-90.00	-2,368.75	2,146.45	1,100.00	1,027.40	72.60	15.152	
14,600.00	11,480.00	14,748.32	11,480.00	34.91	42.68	-90.00	-2,468.75	2,146.89	1,100.00	1,026.55	73.45	14.976	
14,700.00	11,480.00	14,848.32	11,480.00	35.33	43.08	-90.00	-2,568.75	2,147.33	1,100.00	1,025.67	74.33	14.800	
14,800.00	11,480.00	14,948.32	11,480.00	35.76	43.48	-90.00	-2,668.74	2,147.77	1,100.00	1,024.77	75.22	14.623	
14,900.00	11,480.00	15,048.32	11,480.00	36.21	43.90	-90.00	-2,768.74	2,148.21	1,100.00	1,023.86	76.14	14.447	
15,000.00	11,480.00	15,148.32	11,480.00	36.66	44.32	-90.00	-2,868.74	2,148.64	1,100.00	1,022.92	77.08	14.271	
15,100.00	11,480.00	15,248.32	11,480.00	37.12	44.75	-90.00	-2,968.74	2,149.08	1,100.00	1,021.96	78.04	14.096	
15,200.00	11,480.00	15,348.32	11,480.00	37.60	45.19	-90.00	-3,068.74	2,149.52	1,100.00	1,020.99	79.01	13.922	
15,300.00	11,480.00	15,448.32	11,480.00	38.08	45.63	-90.00	-3,168.74	2,149.96	1,100.00	1,019.99	80.00	13.749	

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 602H
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 602H	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
15,400.00	11,480.00	15,548.32	11,480.00	38.57	46.09	-90.00	-3,268.74	2,150.40	1,100.00	1,018.98	81.01	13.578	
15,500.00	11,480.00	15,648.32	11,480.00	39.07	46.55	-90.00	-3,368.74	2,150.83	1,100.00	1,017.96	82.04	13.408	
15,600.00	11,480.00	15,748.32	11,480.00	39.59	47.01	-90.00	-3,468.74	2,151.27	1,100.00	1,016.92	83.08	13.240	
15,700.00	11,480.00	15,848.32	11,480.00	40.11	47.49	-90.00	-3,568.74	2,151.71	1,100.00	1,015.86	84.14	13.074	
15,800.00	11,480.00	15,948.32	11,480.00	40.63	47.97	-90.00	-3,668.74	2,152.15	1,100.00	1,014.79	85.21	12.909	
15,900.00	11,480.00	16,048.32	11,480.00	41.17	48.46	-90.00	-3,768.73	2,152.59	1,100.00	1,013.70	86.30	12.747	
16,000.00	11,480.00	16,148.32	11,480.00	41.71	48.96	-90.00	-3,868.73	2,153.03	1,100.00	1,012.60	87.39	12.587	
16,100.00	11,480.00	16,248.32	11,480.00	42.27	49.46	-90.00	-3,968.73	2,153.46	1,100.00	1,011.49	88.51	12.428	
16,200.00	11,480.00	16,348.32	11,480.00	42.82	49.97	-90.00	-4,068.73	2,153.90	1,100.00	1,010.37	89.63	12.273	
16,300.00	11,480.00	16,448.32	11,480.00	43.39	50.48	-90.00	-4,168.73	2,154.34	1,100.00	1,009.23	90.77	12.119	
16,400.00	11,480.00	16,548.32	11,480.00	43.96	51.00	-90.00	-4,268.73	2,154.78	1,100.00	1,008.08	91.91	11.968	
16,500.00	11,480.00	16,648.32	11,480.00	44.54	51.53	-90.00	-4,368.73	2,155.22	1,100.00	1,006.92	93.07	11.819	
16,600.00	11,480.00	16,748.32	11,480.00	45.13	52.06	-90.00	-4,468.73	2,155.65	1,100.00	1,005.76	94.24	11.672	
16,700.00	11,480.00	16,848.32	11,480.00	45.72	52.60	-90.00	-4,568.73	2,156.09	1,100.00	1,004.57	95.42	11.527	
16,800.00	11,480.00	16,948.32	11,480.00	46.31	53.14	-90.00	-4,668.73	2,156.53	1,100.00	1,003.38	96.61	11.385	
16,900.00	11,480.00	17,048.32	11,480.00	46.92	53.69	-90.00	-4,768.72	2,156.97	1,100.00	1,002.18	97.81	11.246	
17,000.00	11,480.00	17,148.32	11,480.00	47.52	54.24	-90.00	-4,868.72	2,157.41	1,100.00	1,000.98	99.02	11.108	
17,100.00	11,480.00	17,248.32	11,480.00	48.14	54.80	-90.00	-4,968.72	2,157.84	1,100.00	999.76	100.24	10.973	
17,200.00	11,480.00	17,348.32	11,480.00	48.75	55.37	-90.00	-5,068.72	2,158.28	1,100.00	998.53	101.47	10.841	
17,300.00	11,480.00	17,448.32	11,480.00	49.38	55.93	-90.00	-5,168.72	2,158.72	1,100.00	997.30	102.70	10.710	
17,400.00	11,480.00	17,548.32	11,480.00	50.00	56.51	-90.00	-5,268.72	2,159.16	1,100.00	996.05	103.95	10.582	
17,500.00	11,480.00	17,648.32	11,480.00	50.63	57.08	-90.00	-5,368.72	2,159.60	1,100.00	994.80	105.20	10.457	
17,600.00	11,480.00	17,748.32	11,480.00	51.27	57.66	-90.00	-5,468.72	2,160.04	1,100.00	993.54	106.46	10.333	
17,700.00	11,480.00	17,848.32	11,480.00	51.91	58.25	-90.00	-5,568.72	2,160.47	1,100.00	992.28	107.72	10.212	
17,800.00	11,480.00	17,948.32	11,480.00	52.55	58.84	-90.00	-5,668.72	2,160.91	1,100.00	991.01	108.99	10.092	
17,900.00	11,480.00	18,048.32	11,480.00	53.20	59.43	-90.00	-5,768.72	2,161.35	1,100.00	989.73	110.27	9.975	
18,000.00	11,480.00	18,148.32	11,480.00	53.85	60.03	-90.00	-5,868.71	2,161.79	1,100.00	988.44	111.56	9.860	
18,100.00	11,480.00	18,248.32	11,480.00	54.50	60.63	-90.00	-5,968.71	2,162.23	1,100.00	987.15	112.85	9.747	
18,200.00	11,480.00	18,348.32	11,480.00	55.16	61.24	-90.00	-6,068.71	2,162.66	1,100.00	985.85	114.15	9.637	
18,300.00	11,480.00	18,448.32	11,480.00	55.82	61.84	-90.00	-6,168.71	2,163.10	1,100.00	984.55	115.45	9.528	
18,400.00	11,480.00	18,548.32	11,480.00	56.48	62.46	-90.00	-6,268.71	2,163.54	1,100.00	983.24	116.76	9.421	
18,500.00	11,480.00	18,648.32	11,480.00	57.15	63.07	-90.00	-6,368.71	2,163.98	1,100.00	981.92	118.08	9.316	
18,600.00	11,480.00	18,748.32	11,480.00	57.82	63.69	-90.00	-6,468.71	2,164.42	1,100.00	980.60	119.40	9.213	
18,700.00	11,480.00	18,848.32	11,480.00	58.49	64.31	-90.00	-6,568.71	2,164.85	1,100.00	979.28	120.72	9.112	
18,800.00	11,480.00	18,948.32	11,480.00	59.16	64.94	-90.00	-6,668.71	2,165.29	1,100.00	977.95	122.05	9.013	
18,900.00	11,480.00	19,048.32	11,480.00	59.84	65.56	-90.00	-6,768.71	2,165.73	1,100.00	976.61	123.39	8.915	
19,000.00	11,480.00	19,148.32	11,480.00	60.52	66.19	-90.00	-6,868.70	2,166.17	1,100.00	975.27	124.73	8.819	
19,100.00	11,480.00	19,248.32	11,480.00	61.20	66.83	-90.00	-6,968.70	2,166.61	1,100.00	973.93	126.07	8.725	
19,200.00	11,480.00	19,348.32	11,480.00	61.88	67.46	-90.00	-7,068.70	2,167.05	1,100.00	972.58	127.42	8.633	
19,300.00	11,480.00	19,448.32	11,480.00	62.57	68.10	-90.00	-7,168.70	2,167.48	1,100.00	971.23	128.77	8.542	
19,400.00	11,480.00	19,548.32	11,480.00	63.26	68.75	-90.00	-7,268.70	2,167.92	1,100.00	969.87	130.13	8.453	
19,500.00	11,480.00	19,648.32	11,480.00	63.95	69.39	-90.00	-7,368.70	2,168.36	1,100.00	968.51	131.49	8.366	
19,600.00	11,480.00	19,748.32	11,480.00	64.64	70.04	-90.00	-7,468.70	2,168.80	1,100.00	967.14	132.86	8.280	
19,700.00	11,480.00	19,848.32	11,480.00	65.33	70.69	-90.00	-7,568.70	2,169.24	1,100.00	965.78	134.22	8.195	
19,800.00	11,480.00	19,948.32	11,480.00	66.03	71.34	-90.00	-7,668.70	2,169.67	1,100.00	964.40	135.60	8.112	
19,900.00	11,480.00	20,048.32	11,480.00	66.73	71.99	-90.00	-7,768.70	2,170.11	1,100.00	963.03	136.97	8.031	
20,000.00	11,480.00	20,148.32	11,480.00	67.42	72.65	-90.00	-7,868.70	2,170.55	1,100.00	961.65	138.35	7.951	
20,100.00	11,480.00	20,248.32	11,480.00	68.13	73.31	-90.00	-7,968.69	2,170.99	1,100.00	960.27	139.73	7.872	
20,200.00	11,480.00	20,348.32	11,480.00	68.83	73.97	-90.00	-8,068.69	2,171.43	1,100.00	958.88	141.12	7.795	
20,300.00	11,480.00	20,448.32	11,480.00	69.53	74.63	-90.00	-8,168.69	2,171.86	1,100.00	957.49	142.51	7.719	
20,400.00	11,480.00	20,548.32	11,480.00	70.24	75.29	-90.00	-8,268.69	2,172.30	1,100.00	956.10	143.90	7.644	
20,500.00	11,480.00	20,648.32	11,480.00	70.94	75.96	-90.00	-8,368.69	2,172.74	1,100.00	954.70	145.30	7.571	

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 602H
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 602H	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		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)			
20,600.00	11,480.00	20,748.32	11,480.00	71.65	76.63	-90.00	-8,468.69	2,173.18	1,100.00	953.31	146.69	7.499	
20,700.00	11,480.00	20,848.32	11,480.00	72.36	77.30	-90.00	-8,568.69	2,173.62	1,100.00	951.91	148.09	7.428	
20,800.00	11,480.00	20,948.32	11,480.00	73.07	77.97	-90.00	-8,668.69	2,174.06	1,100.00	950.50	149.50	7.358	
20,900.00	11,480.00	21,048.32	11,480.00	73.78	78.65	-90.00	-8,768.69	2,174.49	1,100.00	949.10	150.90	7.289	
21,000.00	11,480.00	21,148.32	11,480.00	74.50	79.32	-90.00	-8,868.69	2,174.93	1,100.00	947.69	152.31	7.222	
21,100.00	11,480.00	21,248.32	11,480.00	75.21	80.00	-90.00	-8,968.68	2,175.37	1,100.00	946.28	153.72	7.156	
21,200.00	11,480.00	21,348.32	11,480.00	75.93	80.68	-90.00	-9,068.68	2,175.81	1,100.00	944.86	155.13	7.091	
21,300.00	11,480.00	21,448.32	11,480.00	76.65	81.36	-90.00	-9,168.68	2,176.25	1,100.00	943.45	156.55	7.026	
21,400.00	11,480.00	21,548.32	11,480.00	77.36	82.04	-90.00	-9,268.68	2,176.68	1,100.00	942.03	157.97	6.963	
21,500.00	11,480.00	21,648.32	11,480.00	78.08	82.73	-90.00	-9,368.68	2,177.12	1,100.00	940.61	159.39	6.901	
21,600.00	11,480.00	21,748.32	11,480.00	78.80	83.41	-90.00	-9,468.68	2,177.56	1,100.00	939.19	160.81	6.840	
21,700.00	11,480.00	21,848.32	11,480.00	79.52	84.10	-90.00	-9,568.68	2,178.00	1,100.00	937.76	162.24	6.780	
21,800.00	11,480.00	21,948.32	11,480.00	80.25	84.79	-90.00	-9,668.68	2,178.44	1,100.00	936.34	163.66	6.721	
21,900.00	11,480.00	22,048.32	11,480.00	80.97	85.48	-90.00	-9,768.68	2,178.87	1,100.00	934.91	165.09	6.663	
22,000.00	11,480.00	22,148.32	11,480.00	81.69	86.17	-90.00	-9,868.68	2,179.31	1,100.00	933.48	166.52	6.606	
22,100.00	11,480.00	22,248.32	11,480.00	82.42	86.86	-90.00	-9,968.67	2,179.75	1,100.00	932.05	167.95	6.549	
22,200.00	11,480.00	22,348.32	11,480.00	83.14	87.55	-90.00	-10,068.67	2,180.19	1,100.00	930.61	169.39	6.494	
22,300.00	11,480.00	22,448.32	11,480.00	83.87	88.25	-90.00	-10,168.67	2,180.63	1,100.00	929.18	170.82	6.439	
22,400.00	11,480.00	22,548.32	11,480.00	84.60	88.94	-90.00	-10,268.67	2,181.07	1,100.00	927.74	172.26	6.386	
22,403.83	11,480.00	22,552.15	11,480.00	84.62	88.97	-90.00	-10,272.50	2,181.08	1,100.00	927.68	172.32	6.384	
22,436.41	11,480.00	22,584.05	11,480.00	84.86	89.19	-90.00	-10,304.41	2,181.22	1,100.00	927.21	172.79	6.366 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 602H
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 602H	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	0.00	20.00	0.00	20.00				
100.00	100.00	100.00	100.00	0.66	0.66	0.00	20.00	0.00	20.00	18.68	1.32	15.184	
200.00	200.00	200.00	200.00	1.35	1.35	0.00	20.00	0.00	20.00	17.30	2.70	7.415	
300.00	300.00	300.00	300.00	1.82	1.82	0.00	20.00	0.00	20.00	16.37	3.63	5.503	
400.00	400.00	400.00	400.00	2.19	2.19	0.00	20.00	0.00	20.00	15.62	4.38	4.565	
500.00	500.00	500.00	500.00	2.51	2.51	0.00	20.00	0.00	20.00	14.98	5.02	3.982	
600.00	600.00	600.00	600.00	2.80	2.80	0.00	20.00	0.00	20.00	14.40	5.60	3.574	
700.00	700.00	700.00	700.00	3.06	3.06	0.00	20.00	0.00	20.00	13.88	6.12	3.267	
800.00	800.00	800.00	800.00	3.30	3.30	0.00	20.00	0.00	20.00	13.39	6.61	3.027	
900.00	900.00	900.00	900.00	3.53	3.53	0.00	20.00	0.00	20.00	12.93	7.07	2.831	
1,000.00	1,000.00	1,000.00	1,000.00	3.75	3.75	0.00	20.00	0.00	20.00	12.50	7.50	2.667	
1,100.00	1,100.00	1,100.00	1,100.00	3.96	3.96	0.00	20.00	0.00	20.00	12.09	7.91	2.528	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	0.00	20.00	0.00	20.00	11.69	8.31	2.408	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	0.00	20.00	0.00	20.00	11.31	8.69	2.302	
1,400.00	1,400.00	1,400.00	1,400.00	4.53	4.53	0.00	20.00	0.00	20.00	10.95	9.05	2.209	
1,500.00	1,500.00	1,500.00	1,500.00	4.70	4.70	0.00	20.00	0.00	20.00	10.59	9.41	2.125 CC	
1,600.00	1,599.98	1,599.45	1,599.43	5.03	5.04	-56.17	21.35	1.07	20.37	10.44	9.92	2.052 ES	
1,700.00	1,699.84	1,698.89	1,698.73	5.67	5.68	-58.91	25.40	4.29	21.50	10.87	10.63	2.023 SF	
1,800.00	1,799.45	1,798.30	1,797.76	6.27	6.28	-62.87	32.15	9.65	23.48	12.30	11.18	2.100	
1,900.00	1,898.70	1,897.67	1,896.39	6.84	6.85	-67.37	41.58	17.14	26.40	14.81	11.59	2.278	
2,000.00	1,997.47	1,996.98	1,994.49	7.39	7.40	-71.83	53.67	26.75	30.34	18.45	11.89	2.551	
2,100.00	2,095.62	2,096.40	2,092.13	7.93	7.70	-76.09	68.32	38.39	35.26	23.24	12.02	2.933	
2,200.00	2,193.06	2,196.16	2,189.95	8.46	7.92	-83.07	83.68	50.59	40.17	28.13	12.04	3.337	
2,300.00	2,289.64	2,295.74	2,287.58	8.99	8.19	-92.81	99.02	62.78	45.60	33.49	12.12	3.764	
2,400.00	2,385.44	2,395.07	2,384.96	9.25	8.46	-103.44	114.31	74.93	52.69	40.20	12.49	4.219	
2,500.00	2,481.14	2,494.36	2,482.32	9.52	8.76	-111.68	129.61	87.08	61.28	48.08	13.20	4.641	
2,600.00	2,576.84	2,593.66	2,579.68	9.83	9.07	-117.82	144.90	99.22	70.82	56.80	14.02	5.051	
2,700.00	2,672.54	2,692.95	2,677.03	10.15	9.39	-122.46	160.19	111.37	80.97	66.12	14.85	5.454	
2,800.00	2,768.24	2,792.25	2,774.39	10.48	9.72	-126.06	175.48	123.52	91.53	75.87	15.66	5.845	
2,900.00	2,863.94	2,891.54	2,871.74	10.83	10.06	-128.90	190.77	135.67	102.37	85.91	16.46	6.221	
3,000.00	2,959.64	2,990.84	2,969.10	11.19	10.42	-131.20	206.06	147.82	113.42	96.17	17.24	6.578	
3,100.00	3,055.34	3,090.13	3,066.45	11.56	10.78	-133.08	221.36	159.97	124.61	106.59	18.02	6.915	
3,200.00	3,151.04	3,189.43	3,163.81	11.95	11.15	-134.66	236.65	172.12	135.91	117.12	18.79	7.233	
3,300.00	3,246.75	3,288.73	3,261.17	12.34	11.52	-135.99	251.94	184.26	147.30	127.74	19.56	7.531	
3,400.00	3,342.45	3,388.02	3,358.52	12.74	11.91	-137.13	267.23	196.41	158.76	138.43	20.33	7.810	
3,500.00	3,438.15	3,487.32	3,455.88	13.14	12.30	-138.12	282.52	208.56	170.27	149.18	21.10	8.071	
3,600.00	3,533.85	3,586.61	3,553.23	13.56	12.69	-138.98	297.82	220.71	181.83	159.96	21.87	8.314	
3,700.00	3,629.55	3,685.91	3,650.59	13.98	13.09	-139.74	313.11	232.86	193.42	170.78	22.64	8.542	
3,800.00	3,725.25	3,785.20	3,747.94	14.41	13.49	-140.41	328.40	245.01	205.04	181.62	23.42	8.756	
3,900.00	3,820.95	3,884.50	3,845.30	14.84	13.90	-141.01	343.69	257.16	216.69	192.49	24.20	8.955	
4,000.00	3,916.65	3,983.79	3,942.66	15.27	14.31	-141.55	358.98	269.30	228.35	203.37	24.98	9.142	
4,100.00	4,012.35	4,083.09	4,040.01	15.71	14.72	-142.04	374.27	281.45	240.04	214.27	25.76	9.317	
4,200.00	4,108.06	4,182.38	4,137.37	16.16	15.14	-142.48	389.57	293.60	251.74	225.19	26.55	9.481	
4,300.00	4,203.76	4,281.68	4,234.72	16.61	15.56	-142.88	404.86	305.75	263.45	236.11	27.34	9.635	
4,400.00	4,299.46	4,380.97	4,332.08	17.06	15.98	-143.25	420.15	317.90	275.18	247.04	28.14	9.780	
4,500.00	4,395.16	4,480.27	4,429.43	17.51	16.40	-143.59	435.44	330.05	286.91	257.98	28.93	9.916	
4,600.00	4,490.86	4,579.56	4,526.79	17.97	16.83	-143.90	450.73	342.20	298.66	268.93	29.73	10.044	
4,700.00	4,586.56	4,678.86	4,624.15	18.43	17.26	-144.19	466.03	354.34	310.41	279.88	30.54	10.165	
4,800.00	4,682.26	4,778.15	4,721.50	18.90	17.69	-144.46	481.32	366.49	322.17	290.83	31.34	10.279	
4,900.00	4,777.96	4,877.45	4,818.86	19.36	18.12	-144.71	496.61	378.64	333.94	301.79	32.15	10.387	
5,000.00	4,873.66	4,976.75	4,916.21	19.83	18.56	-144.94	511.90	390.79	345.71	312.75	32.96	10.489	
5,100.00	4,969.37	5,076.04	5,013.57	20.30	18.99	-145.15	527.19	402.94	357.49	323.72	33.77	10.586	

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 602H
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 602H	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
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,200.00	5,065.07	5,175.34	5,110.92	20.77	19.43	-145.36	542.48	415.09	369.27	334.69	34.58	10.678			
5,300.00	5,160.77	5,274.63	5,208.28	21.25	19.87	-145.55	557.78	427.24	381.06	345.66	35.40	10.765			
5,400.00	5,256.47	5,373.93	5,305.64	21.72	20.31	-145.72	573.07	439.38	392.85	356.63	36.22	10.847			
5,500.00	5,352.17	5,473.22	5,402.99	22.20	20.75	-145.89	588.36	451.53	404.64	367.61	37.04	10.926			
5,600.00	5,447.87	5,572.52	5,500.35	22.68	21.19	-146.05	603.65	463.68	416.44	378.58	37.86	11.000			
5,700.00	5,543.57	5,671.81	5,597.70	23.16	21.64	-146.20	618.94	475.83	428.24	389.56	38.68	11.072			
5,800.00	5,639.27	5,771.11	5,695.06	23.64	22.08	-146.34	634.24	487.98	440.04	400.54	39.50	11.139			
5,900.00	5,735.21	5,870.48	5,792.49	24.11	22.53	-146.50	649.54	500.14	451.16	410.87	40.30	11.196			
6,000.00	5,832.02	5,970.12	5,890.18	24.65	22.97	-146.44	664.88	512.33	459.53	418.45	41.07	11.188			
6,100.00	5,929.66	6,064.98	5,983.27	25.20	23.40	-146.17	679.19	523.69	465.28	423.53	41.75	11.145			
6,200.00	6,027.98	6,155.44	6,072.48	25.73	23.84	-145.93	690.86	532.97	469.94	427.57	42.37	11.091			
6,300.00	6,126.88	6,245.91	6,162.14	26.25	24.29	-145.75	700.33	540.48	473.73	430.77	42.96	11.026			
6,400.00	6,226.24	6,336.40	6,252.16	26.74	24.74	-145.61	707.57	546.24	476.63	433.13	43.50	10.957			
6,500.00	6,325.93	6,426.91	6,342.43	27.19	25.15	-145.51	712.58	550.22	478.64	434.67	43.97	10.884			
6,600.00	6,425.83	6,517.42	6,432.86	27.59	25.50	-145.46	715.36	552.43	479.76	435.41	44.35	10.817			
6,700.00	6,525.82	6,610.38	6,525.82	27.74	25.65	-90.26	715.98	552.92	480.00	435.58	44.42	10.805			
6,800.00	6,625.82	6,710.38	6,625.82	27.77	25.69	-90.26	715.98	552.92	480.00	435.50	44.50	10.786			
6,900.00	6,725.82	6,810.38	6,725.82	27.80	25.73	-90.26	715.98	552.92	480.00	435.41	44.59	10.764			
7,000.00	6,825.82	6,910.38	6,825.82	27.84	25.78	-90.26	715.98	552.92	480.00	435.32	44.69	10.742			
7,100.00	6,925.82	7,010.38	6,925.82	27.88	25.82	-90.26	715.98	552.92	480.00	435.23	44.78	10.720			
7,200.00	7,025.82	7,110.38	7,025.82	27.92	25.86	-90.26	715.98	552.92	480.00	435.14	44.87	10.698			
7,300.00	7,125.82	7,210.38	7,125.82	27.95	25.91	-90.26	715.98	552.92	480.00	435.04	44.96	10.676			
7,400.00	7,225.82	7,310.38	7,225.82	27.99	25.95	-90.26	715.98	552.92	480.00	434.95	45.05	10.654			
7,500.00	7,325.82	7,410.38	7,325.82	28.03	25.99	-90.26	715.98	552.92	480.00	434.86	45.15	10.632			
7,600.00	7,425.82	7,510.38	7,425.82	28.07	26.04	-90.26	715.98	552.92	480.00	434.76	45.24	10.610			
7,700.00	7,525.82	7,610.38	7,525.82	28.11	26.08	-90.26	715.98	552.92	480.00	434.67	45.34	10.588			
7,800.00	7,625.82	7,710.38	7,625.82	28.15	26.13	-90.26	715.98	552.92	480.00	434.58	45.43	10.566			
7,900.00	7,725.82	7,810.38	7,725.82	28.18	26.17	-90.26	715.98	552.92	480.00	434.48	45.52	10.544			
8,000.00	7,825.82	7,910.38	7,825.82	28.22	26.22	-90.26	715.98	552.92	480.00	434.39	45.62	10.522			
8,100.00	7,925.82	8,010.38	7,925.82	28.26	26.26	-90.26	715.98	552.92	480.00	434.29	45.71	10.500			
8,200.00	8,025.82	8,110.38	8,025.82	28.30	26.30	-90.26	715.98	552.92	480.00	434.19	45.81	10.478			
8,300.00	8,125.82	8,210.38	8,125.82	28.34	26.35	-90.26	715.98	552.92	480.00	434.10	45.91	10.456			
8,400.00	8,225.82	8,310.38	8,225.82	28.38	26.40	-90.26	715.98	552.92	480.00	434.00	46.00	10.434			
8,500.00	8,325.82	8,410.38	8,325.82	28.42	26.44	-90.26	715.98	552.92	480.00	433.90	46.10	10.412			
8,600.00	8,425.82	8,510.38	8,425.82	28.46	26.49	-90.26	715.98	552.92	480.00	433.81	46.20	10.390			
8,700.00	8,525.82	8,610.38	8,525.82	28.50	26.53	-90.26	715.98	552.92	480.00	433.71	46.30	10.368			
8,800.00	8,625.82	8,710.38	8,625.82	28.54	26.58	-90.26	715.98	552.92	480.00	433.61	46.39	10.346			
8,900.00	8,725.82	8,810.38	8,725.82	28.58	26.62	-90.26	715.98	552.92	480.00	433.51	46.49	10.324			
9,000.00	8,825.82	8,910.38	8,825.82	28.62	26.67	-90.26	715.98	552.92	480.00	433.41	46.59	10.303			
9,100.00	8,925.82	9,010.38	8,925.82	28.66	26.72	-90.26	715.98	552.92	480.00	433.31	46.69	10.281			
9,200.00	9,025.82	9,110.38	9,025.82	28.70	26.76	-90.26	715.98	552.92	480.00	433.22	46.79	10.259			
9,300.00	9,125.82	9,210.38	9,125.82	28.75	26.81	-90.26	715.98	552.92	480.00	433.12	46.89	10.237			
9,400.00	9,225.82	9,310.38	9,225.82	28.79	26.86	-90.26	715.98	552.92	480.00	433.02	46.99	10.215			
9,500.00	9,325.82	9,410.38	9,325.82	28.83	26.91	-90.26	715.98	552.92	480.00	432.91	47.09	10.193			
9,600.00	9,425.82	9,510.38	9,425.82	28.87	26.95	-90.26	715.98	552.92	480.00	432.81	47.19	10.172			
9,700.00	9,525.82	9,610.38	9,525.82	28.91	27.00	-90.26	715.98	552.92	480.00	432.71	47.29	10.150			
9,800.00	9,625.82	9,710.38	9,625.82	28.95	27.05	-90.26	715.98	552.92	480.00	432.61	47.39	10.128			
9,900.00	9,725.82	9,810.38	9,725.82	29.00	27.10	-90.26	715.98	552.92	480.00	432.51	47.50	10.106			
10,000.00	9,825.82	9,910.38	9,825.82	29.04	27.14	-90.26	715.98	552.92	480.00	432.41	47.60	10.085			
10,100.00	9,925.82	10,010.38	9,925.82	29.08	27.19	-90.26	715.98	552.92	480.00	432.30	47.70	10.063			
10,200.00	10,025.82	10,110.38	10,025.82	29.12	27.24	-90.26	715.98	552.92	480.00	432.20	47.80	10.041			
10,300.00	10,125.82	10,210.38	10,125.82	29.17	27.29	-90.26	715.98	552.92	480.00	432.10	47.91	10.020			

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 602H
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 602H	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					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
10,400.00	10,225.82	10,310.38	10,225.82	29.21	27.34	-90.26	715.98	552.92	480.00	431.99	48.01	9.998	
10,500.00	10,325.82	10,410.38	10,325.82	29.25	27.39	-90.26	715.98	552.92	480.00	431.89	48.11	9.976	
10,600.00	10,425.82	10,510.38	10,425.82	29.30	27.44	-90.26	715.98	552.92	480.00	431.79	48.22	9.955	
10,700.00	10,525.82	10,610.38	10,525.82	29.34	27.48	-90.26	715.98	552.92	480.00	431.68	48.32	9.933	
10,800.00	10,625.82	10,710.38	10,625.82	29.38	27.53	-90.26	715.98	552.92	480.00	431.58	48.43	9.912	
10,900.00	10,725.82	10,810.38	10,725.82	29.43	27.58	-90.26	715.98	552.92	480.00	431.47	48.53	9.890	
11,000.00	10,825.82	10,910.38	10,825.82	29.47	27.63	-90.26	715.98	552.92	480.00	431.37	48.64	9.869	
11,019.01	10,844.83	10,929.39	10,844.83	29.48	27.64	90.00	715.98	552.92	480.00	431.35	48.65	9.866	
11,100.00	10,925.82	11,010.37	10,925.82	29.49	27.68	90.03	715.98	552.92	480.00	431.29	48.72	9.853	
11,101.93	10,927.74	11,012.30	10,927.74	29.49	27.68	90.04	715.98	552.92	480.00	431.29	48.72	9.853	
11,200.00	11,024.97	11,109.53	11,024.97	29.36	27.73	91.43	715.98	552.92	480.16	431.87	48.29	9.943	
11,300.00	11,120.54	11,205.10	11,120.54	29.21	27.78	94.55	715.98	552.92	481.77	434.57	47.20	10.207	
11,400.00	11,209.63	11,294.18	11,209.63	29.03	27.82	98.69	715.98	552.92	487.71	442.18	45.54	10.711	
11,500.00	11,289.52	11,374.07	11,289.52	28.85	27.86	102.79	715.98	552.92	501.80	458.29	43.52	11.531	
11,600.00	11,357.78	11,442.34	11,357.78	28.68	27.89	105.74	715.98	552.92	527.68	486.18	41.50	12.714	
11,700.00	11,412.36	11,524.80	11,440.12	28.55	27.84	109.02	712.51	552.59	566.68	526.49	40.19	14.098	
11,800.00	11,451.58	11,643.04	11,555.46	28.46	27.70	113.77	687.62	550.24	614.90	574.70	40.20	15.297	
11,900.00	11,474.25	11,828.08	11,719.04	28.44	27.39	121.07	603.22	542.26	667.07	624.67	42.40	15.733	
12,000.00	11,480.00	12,191.89	11,925.05	28.48	26.93	130.56	312.06	514.74	709.75	658.77	50.98	13.923	
12,100.00	11,480.00	12,445.70	11,950.00	28.56	27.11	130.85	61.74	492.32	719.50	663.35	56.15	12.813	
12,200.00	11,480.00	12,569.17	11,950.00	28.65	27.35	130.55	-61.61	486.97	723.12	665.54	57.59	12.557	
12,300.00	11,480.00	12,683.58	11,950.00	28.76	27.60	130.50	-176.02	486.49	723.73	664.86	58.86	12.295	
12,400.00	11,480.00	12,783.58	11,950.00	28.88	27.86	130.50	-276.02	486.93	723.72	663.94	59.79	12.105	
12,500.00	11,480.00	12,883.58	11,950.00	29.02	28.16	130.50	-376.02	487.37	723.72	662.96	60.76	11.910	
12,600.00	11,480.00	12,983.58	11,950.00	29.17	28.50	130.50	-476.02	487.81	723.72	661.92	61.80	11.711	
12,700.00	11,480.00	13,083.58	11,950.00	29.33	28.89	130.50	-576.01	488.25	723.72	660.84	62.88	11.510	
12,800.00	11,480.00	13,183.58	11,950.00	29.51	29.33	130.50	-676.01	488.70	723.71	659.71	64.01	11.307	
12,900.00	11,480.00	13,283.58	11,950.00	29.69	29.83	130.50	-776.01	489.14	723.71	658.53	65.18	11.103	
13,000.00	11,480.00	13,383.58	11,950.00	29.90	30.39	130.50	-876.01	489.58	723.71	657.31	66.39	10.900	
13,100.00	11,480.00	13,483.58	11,950.00	30.11	31.01	130.50	-976.01	490.02	723.71	656.06	67.65	10.698	
13,200.00	11,480.00	13,583.58	11,950.00	30.34	31.68	130.50	-1,076.01	490.46	723.70	654.76	68.94	10.498	
13,300.00	11,480.00	13,683.58	11,950.00	30.58	32.42	130.50	-1,176.01	490.90	723.70	653.43	70.27	10.299	
13,400.00	11,480.00	13,783.58	11,950.00	30.84	33.21	130.50	-1,276.01	491.34	723.70	652.07	71.63	10.104	
13,500.00	11,480.00	13,883.58	11,950.00	31.11	34.05	130.50	-1,376.01	491.79	723.69	650.68	73.01	9.912	
13,600.00	11,480.00	13,983.58	11,950.00	31.39	34.94	130.50	-1,476.01	492.23	723.69	649.26	74.43	9.723	
13,700.00	11,480.00	14,083.58	11,950.00	31.68	35.88	130.50	-1,576.00	492.67	723.69	647.81	75.88	9.537	
13,800.00	11,480.00	14,183.58	11,950.00	31.99	36.86	130.50	-1,676.00	493.11	723.69	646.34	77.35	9.356	
13,900.00	11,480.00	14,283.58	11,950.00	32.31	37.87	130.50	-1,776.00	493.55	723.68	644.84	78.84	9.179	
14,000.00	11,480.00	14,383.58	11,950.00	32.65	38.93	130.50	-1,876.00	493.99	723.68	643.32	80.36	9.005	
14,100.00	11,480.00	14,483.58	11,950.00	32.99	40.01	130.50	-1,976.00	494.43	723.68	641.78	81.90	8.836	
14,200.00	11,480.00	14,583.58	11,950.00	33.35	41.12	130.50	-2,076.00	494.88	723.68	640.22	83.46	8.671	
14,300.00	11,480.00	14,683.58	11,950.00	33.73	42.26	130.50	-2,176.00	495.32	723.67	638.64	85.03	8.511	
14,400.00	11,480.00	14,783.58	11,950.00	34.11	43.42	130.50	-2,276.00	495.76	723.67	637.05	86.63	8.354	
14,500.00	11,480.00	14,883.58	11,950.00	34.51	44.60	130.50	-2,376.00	496.20	723.67	635.43	88.24	8.202	
14,600.00	11,480.00	14,983.58	11,950.00	34.91	45.80	130.50	-2,476.00	496.64	723.67	633.81	89.86	8.053	
14,700.00	11,480.00	15,083.58	11,950.00	35.33	47.02	130.50	-2,575.99	497.08	723.66	632.16	91.50	7.909	
14,800.00	11,480.00	15,183.58	11,950.00	35.76	48.25	130.50	-2,675.99	497.53	723.66	630.51	93.16	7.768	
14,900.00	11,480.00	15,283.58	11,950.00	36.21	49.49	130.50	-2,775.99	497.97	723.66	628.84	94.82	7.632	
15,000.00	11,480.00	15,383.58	11,950.00	36.66	50.75	130.50	-2,875.99	498.41	723.66	627.15	96.50	7.499	
15,100.00	11,480.00	15,483.58	11,950.00	37.12	52.02	130.50	-2,975.99	498.85	723.65	625.46	98.19	7.370	
15,200.00	11,480.00	15,583.58	11,950.00	37.60	53.30	130.50	-3,075.99	499.29	723.65	623.75	99.90	7.244	
15,300.00	11,480.00	15,683.58	11,950.00	38.08	54.59	130.50	-3,175.99	499.73	723.65	622.04	101.61	7.122	

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 602H
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 602H	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,400.00	11,480.00	15,783.58	11,950.00	38.57	55.89	130.50	-3,275.99	500.17	723.65	620.31	103.33	7.003			
15,500.00	11,480.00	15,883.58	11,950.00	39.07	57.20	130.50	-3,375.99	500.62	723.64	618.58	105.07	6.887			
15,600.00	11,480.00	15,983.58	11,950.00	39.59	58.52	130.50	-3,475.99	501.06	723.64	616.83	106.81	6.775			
15,700.00	11,480.00	16,083.58	11,950.00	40.11	59.84	130.50	-3,575.98	501.50	723.64	615.08	108.56	6.666			
15,800.00	11,480.00	16,183.58	11,950.00	40.63	61.17	130.50	-3,675.98	501.94	723.64	613.32	110.32	6.560			
15,900.00	11,480.00	16,283.58	11,950.00	41.17	62.51	130.50	-3,775.98	502.38	723.63	611.55	112.08	6.456			
16,000.00	11,480.00	16,383.58	11,950.00	41.71	63.85	130.50	-3,875.98	502.82	723.63	609.77	113.86	6.356			
16,100.00	11,480.00	16,483.58	11,950.00	42.27	65.19	130.50	-3,975.98	503.26	723.63	607.99	115.64	6.258			
16,200.00	11,480.00	16,583.58	11,950.00	42.82	66.54	130.50	-4,075.98	503.71	723.63	606.20	117.43	6.162			
16,300.00	11,480.00	16,683.58	11,950.00	43.39	67.90	130.50	-4,175.98	504.15	723.62	604.40	119.22	6.070			
16,400.00	11,480.00	16,783.58	11,950.00	43.96	69.26	130.50	-4,275.98	504.59	723.62	602.60	121.02	5.979			
16,500.00	11,480.00	16,883.58	11,950.00	44.54	70.62	130.51	-4,375.98	505.03	723.62	600.79	122.83	5.891			
16,600.00	11,480.00	16,983.58	11,950.00	45.13	71.99	130.51	-4,475.98	505.47	723.61	598.98	124.64	5.806			
16,700.00	11,480.00	17,083.58	11,950.00	45.72	73.36	130.51	-4,575.98	505.91	723.61	597.16	126.46	5.722			
16,800.00	11,480.00	17,183.58	11,950.00	46.31	74.73	130.51	-4,675.97	506.36	723.61	595.33	128.28	5.641			
16,900.00	11,480.00	17,283.58	11,950.00	46.92	76.11	130.51	-4,775.97	506.80	723.61	593.50	130.10	5.562			
17,000.00	11,480.00	17,383.58	11,950.00	47.52	77.49	130.51	-4,875.97	507.24	723.60	591.67	131.94	5.484			
17,100.00	11,480.00	17,483.58	11,950.00	48.14	78.87	130.51	-4,975.97	507.68	723.60	589.83	133.77	5.409			
17,200.00	11,480.00	17,583.58	11,950.00	48.75	80.26	130.51	-5,075.97	508.12	723.60	587.99	135.61	5.336			
17,300.00	11,480.00	17,683.58	11,950.00	49.38	81.65	130.51	-5,175.97	508.56	723.60	586.14	137.46	5.264			
17,400.00	11,480.00	17,783.58	11,950.00	50.00	83.04	130.51	-5,275.97	509.00	723.59	584.29	139.31	5.194			
17,500.00	11,480.00	17,883.58	11,950.00	50.63	84.43	130.51	-5,375.97	509.45	723.59	582.43	141.16	5.126			
17,600.00	11,480.00	17,983.58	11,950.00	51.27	85.83	130.51	-5,475.97	509.89	723.59	580.57	143.02	5.059			
17,700.00	11,480.00	18,083.58	11,950.00	51.91	87.22	130.51	-5,575.97	510.33	723.59	578.71	144.88	4.995			
17,800.00	11,480.00	18,183.58	11,950.00	52.55	88.62	130.51	-5,675.96	510.77	723.58	576.84	146.74	4.931			
17,900.00	11,480.00	18,283.58	11,950.00	53.20	90.02	130.51	-5,775.96	511.21	723.58	574.98	148.61	4.869			
18,000.00	11,480.00	18,383.58	11,950.00	53.85	91.42	130.51	-5,875.96	511.65	723.58	573.10	150.48	4.809			
18,100.00	11,480.00	18,483.58	11,950.00	54.50	92.82	130.51	-5,975.96	512.10	723.58	571.23	152.35	4.749			
18,200.00	11,480.00	18,583.58	11,950.00	55.16	94.23	130.51	-6,075.96	512.54	723.57	569.35	154.22	4.692			
18,300.00	11,480.00	18,683.58	11,950.00	55.82	95.64	130.51	-6,175.96	512.98	723.57	567.47	156.10	4.635			
18,400.00	11,480.00	18,783.58	11,950.00	56.48	97.04	130.51	-6,275.96	513.42	723.57	565.58	157.98	4.580			
18,500.00	11,480.00	18,883.58	11,950.00	57.15	98.45	130.51	-6,375.96	513.86	723.57	563.70	159.87	4.526			
18,600.00	11,480.00	18,983.58	11,950.00	57.82	99.86	130.51	-6,475.96	514.30	723.56	561.81	161.75	4.473			
18,700.00	11,480.00	19,083.58	11,950.00	58.49	101.27	130.51	-6,575.96	514.74	723.56	559.92	163.64	4.422			
18,800.00	11,480.00	19,183.58	11,950.00	59.16	102.69	130.51	-6,675.95	515.19	723.56	558.02	165.53	4.371			
18,900.00	11,480.00	19,283.58	11,950.00	59.84	104.10	130.51	-6,775.95	515.63	723.56	556.13	167.43	4.322			
19,000.00	11,480.00	19,383.58	11,950.00	60.52	105.51	130.51	-6,875.95	516.07	723.55	554.23	169.32	4.273			
19,100.00	11,480.00	19,483.58	11,950.00	61.20	106.93	130.51	-6,975.95	516.51	723.55	552.33	171.22	4.226			
19,200.00	11,480.00	19,583.58	11,950.00	61.88	108.35	130.51	-7,075.95	516.95	723.55	550.43	173.12	4.179			
19,300.00	11,480.00	19,683.58	11,950.00	62.57	109.76	130.51	-7,175.95	517.39	723.54	548.52	175.02	4.134			
19,400.00	11,480.00	19,783.58	11,950.00	63.26	111.18	130.51	-7,275.95	517.83	723.54	546.61	176.93	4.089			
19,500.00	11,480.00	19,883.58	11,950.00	63.95	112.60	130.51	-7,375.95	518.28	723.54	544.71	178.83	4.046			
19,600.00	11,480.00	19,983.58	11,950.00	64.64	114.02	130.51	-7,475.95	518.72	723.54	542.80	180.74	4.003			
19,700.00	11,480.00	20,083.58	11,950.00	65.33	115.44	130.51	-7,575.95	519.16	723.53	540.88	182.65	3.961			
19,800.00	11,480.00	20,183.58	11,950.00	66.03	116.87	130.51	-7,675.95	519.60	723.53	538.97	184.56	3.920			
19,900.00	11,480.00	20,283.58	11,950.00	66.73	118.29	130.51	-7,775.94	520.04	723.53	537.05	186.48	3.880			
20,000.00	11,480.00	20,383.58	11,950.00	67.42	119.71	130.51	-7,875.94	520.48	723.53	535.14	188.39	3.841			
20,100.00	11,480.00	20,483.58	11,950.00	68.13	121.13	130.51	-7,975.94	520.93	723.52	533.22	190.31	3.802			
20,200.00	11,480.00	20,583.58	11,950.00	68.83	122.56	130.51	-8,075.94	521.37	723.52	531.30	192.22	3.764			
20,300.00	11,480.00	20,683.58	11,950.00	69.53	123.98	130.51	-8,175.94	521.81	723.52	529.38	194.14	3.727			
20,400.00	11,480.00	20,783.58	11,950.00	70.24	125.41	130.51	-8,275.94	522.25	723.52	527.45	196.06	3.690			
20,500.00	11,480.00	20,883.58	11,950.00	70.94	126.84	130.51	-8,375.94	522.69	723.51	525.53	197.99	3.654			

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 602H
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 602H	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)			
20,600.00	11,480.00	20,983.58	11,950.00	71.65	128.26	130.51	-8,475.94	523.13	723.51	523.60	199.91	3.619	
20,700.00	11,480.00	21,083.58	11,950.00	72.36	129.69	130.51	-8,575.94	523.57	723.51	521.68	201.83	3.585	
20,800.00	11,480.00	21,183.58	11,950.00	73.07	131.12	130.51	-8,675.94	524.02	723.51	519.75	203.76	3.551	
20,900.00	11,480.00	21,283.58	11,950.00	73.78	132.55	130.51	-8,775.93	524.46	723.50	517.82	205.69	3.518	
21,000.00	11,480.00	21,383.58	11,950.00	74.50	133.98	130.51	-8,875.93	524.90	723.50	515.89	207.61	3.485	
21,100.00	11,480.00	21,483.58	11,950.00	75.21	135.40	130.51	-8,975.93	525.34	723.50	513.96	209.54	3.453	
21,200.00	11,480.00	21,583.58	11,950.00	75.93	136.83	130.51	-9,075.93	525.78	723.50	512.02	211.47	3.421	
21,300.00	11,480.00	21,683.58	11,950.00	76.65	138.27	130.51	-9,175.93	526.22	723.49	510.09	213.41	3.390	
21,400.00	11,480.00	21,783.58	11,950.00	77.36	139.70	130.51	-9,275.93	526.67	723.49	508.15	215.34	3.360	
21,500.00	11,480.00	21,883.58	11,950.00	78.08	141.13	130.51	-9,375.93	527.11	723.49	506.22	217.27	3.330	
21,600.00	11,480.00	21,983.58	11,950.00	78.80	142.56	130.51	-9,475.93	527.55	723.49	504.28	219.21	3.300	
21,700.00	11,480.00	22,083.58	11,950.00	79.52	143.99	130.51	-9,575.93	527.99	723.48	502.34	221.14	3.272	
21,800.00	11,480.00	22,183.58	11,950.00	80.25	145.42	130.51	-9,675.93	528.43	723.48	500.40	223.08	3.243	
21,900.00	11,480.00	22,283.58	11,950.00	80.97	146.86	130.51	-9,775.92	528.87	723.48	498.46	225.02	3.215	
22,000.00	11,480.00	22,383.58	11,950.00	81.69	148.29	130.51	-9,875.92	529.31	723.48	496.52	226.96	3.188	
22,100.00	11,480.00	22,483.58	11,950.00	82.42	149.72	130.51	-9,975.92	529.76	723.47	494.58	228.90	3.161	
22,200.00	11,480.00	22,583.58	11,950.00	83.14	151.16	130.51	-10,075.92	530.20	723.47	492.63	230.84	3.134	
22,300.00	11,480.00	22,683.58	11,950.00	83.87	152.59	130.52	-10,175.92	530.64	723.47	490.69	232.78	3.108	
22,400.00	11,480.00	22,783.58	11,950.00	84.60	154.02	130.52	-10,275.92	531.08	723.46	488.75	234.72	3.082	
22,436.41	11,480.00	22,819.99	11,950.00	84.86	154.55	130.52	-10,312.33	531.24	723.46	488.04	235.43	3.073	

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



Anticollision Report

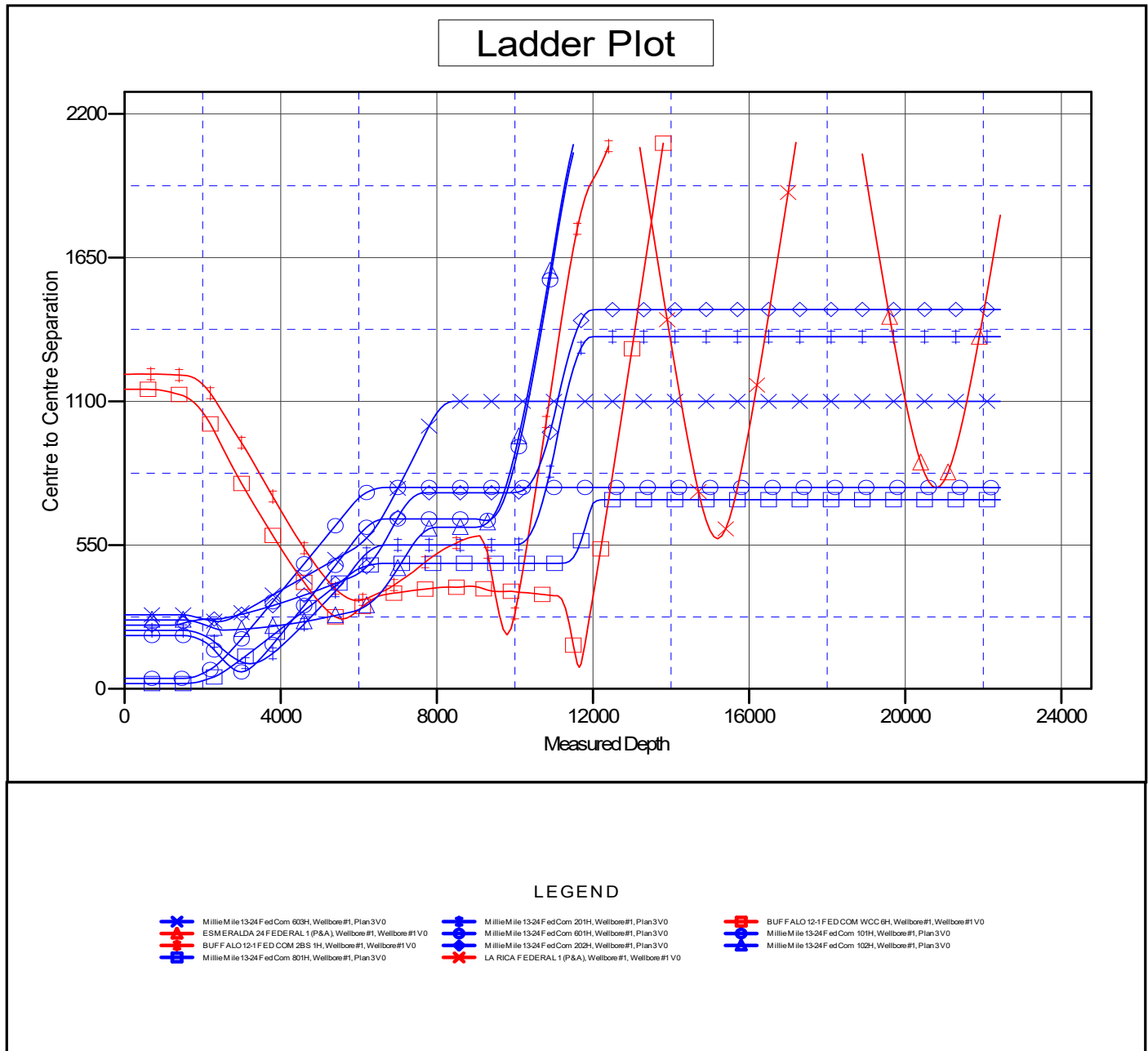


E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
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 602H	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 602H
 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



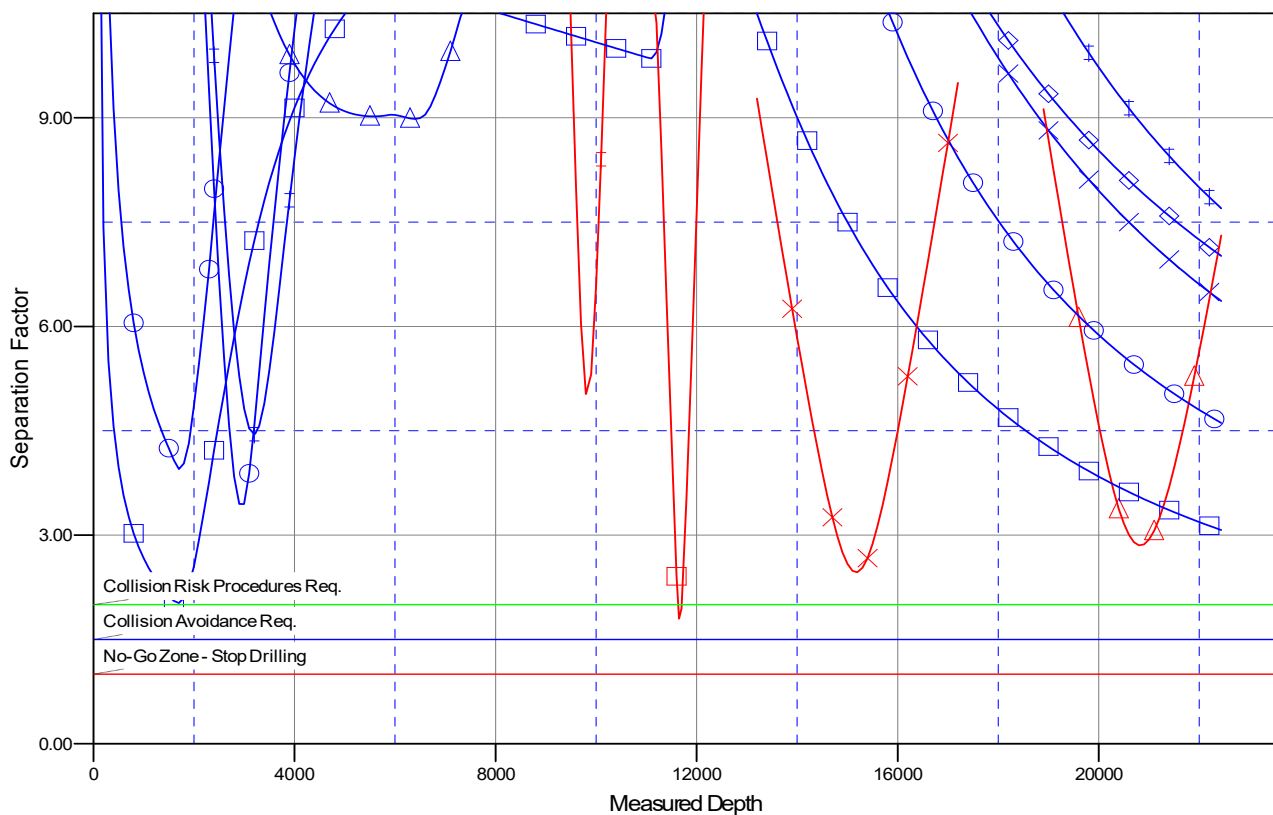
E. G. L. Resources, Inc.

Company:	E.G.L. Resources, Inc.	Local Co-ordinate Reference:	Well Millie Mile 13-24 Fed Com 602H
Project:	Lea, County NM (NAD 83)	TVD Reference:	RKB 25' + GL 3708.57 @ 3733.57usft
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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 602H
 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 3 V0
 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 801H, Wellbore #1, Plan 3 V0

Millie Mile 13-24 Fed Com 201H, Wellbore #1, Plan 3 V0
 Millie Mile 13-24 Fed Com 601H, Wellbore #1, Plan 3 V0
 Millie Mile 13-24 Fed Com 202H, Wellbore #1, Plan 3 V0
 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 3 V0
 Millie Mile 13-24 Fed Com 102H, Wellbore #1, Plan 3 V0

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

Millie Mile 13-24 Fed Com 602H

WELL DETAILS: Millie Mile 13-24 Fed Com 602H

ELEVATION: RKB 25' + GL 3708.57 @ 3733.57usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	607044.97	759438.58	32.66681087	-103.62458466

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
2343.05	16.86	55.19	2330.94	70.30	101.12	2.00	55.19	-70.30	Start 3488.07 hold at 2343.05 MD
5831.13	16.86	55.19	5669.06	647.84	931.80	0.00	0.00	-647.84	Start Drop -2.00
6674.18	0.00	0.00	6500.00	718.14	1032.92	2.00	180.00	-718.14	Start 4407.04 hold at 6674.18 MD
11081.22	0.00	0.00	10907.04	718.14	1032.92	0.00	0.00	-718.14	Start DLS 10.00 TFO 179.75
11981.22	90.00	179.75	11480.00	145.19	1035.43	10.00	179.75	-145.19	Start 10455.19 hold at 11981.22 MD
22436.41	90.00	179.75	11480.00	-10309.90	1081.24	0.00	0.00	10309.90	TD at 22436.41

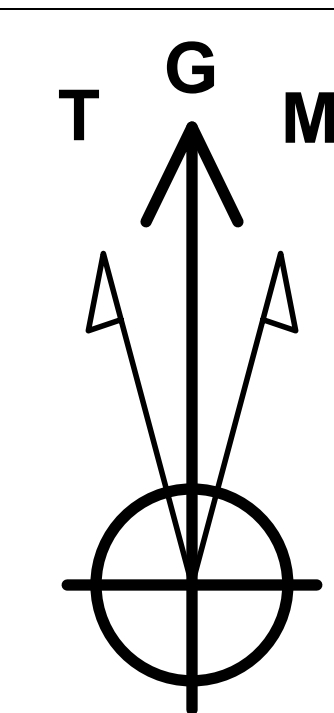
Project: Lea, County NM (NAD 83)
Site: Millie Mile Pad
Well: Millie Mile 13-24 Fed Com 602H
Wellbore: Wellbore #1
Design: Plan 3
Depths: RKB 25' + GL 3708.57 @ 3733.57usft

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

System Datum: Mean Sea Level

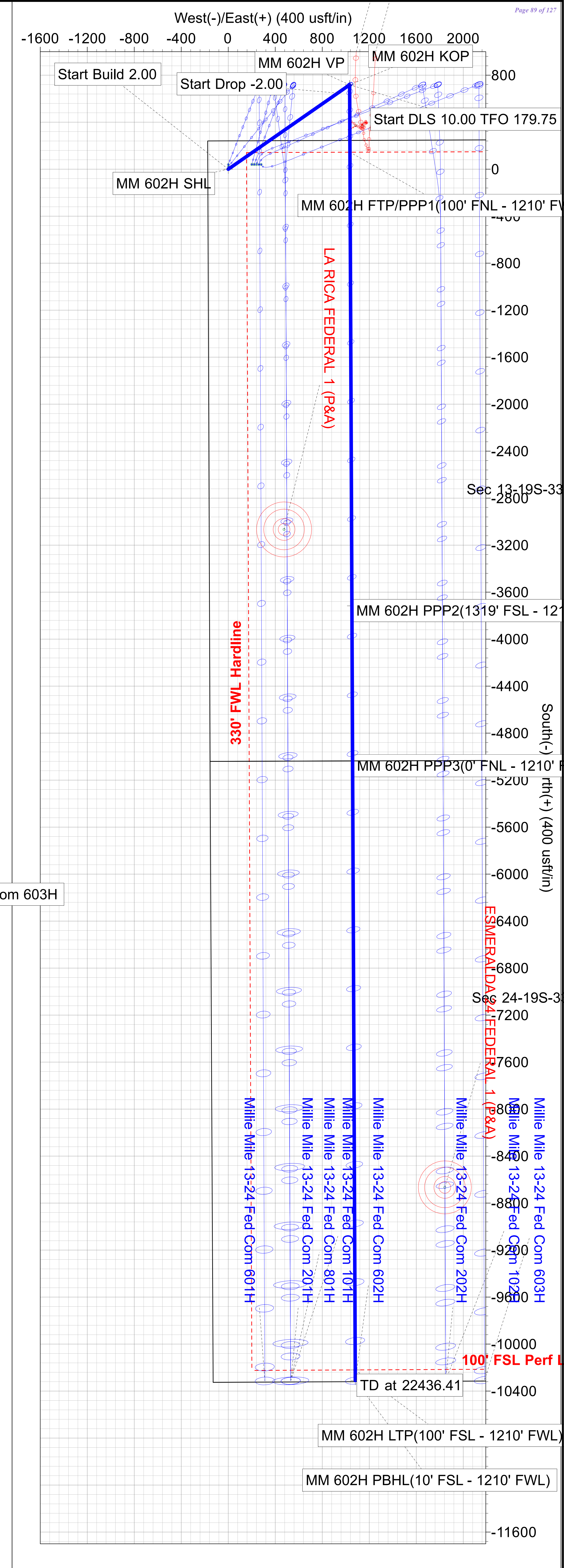
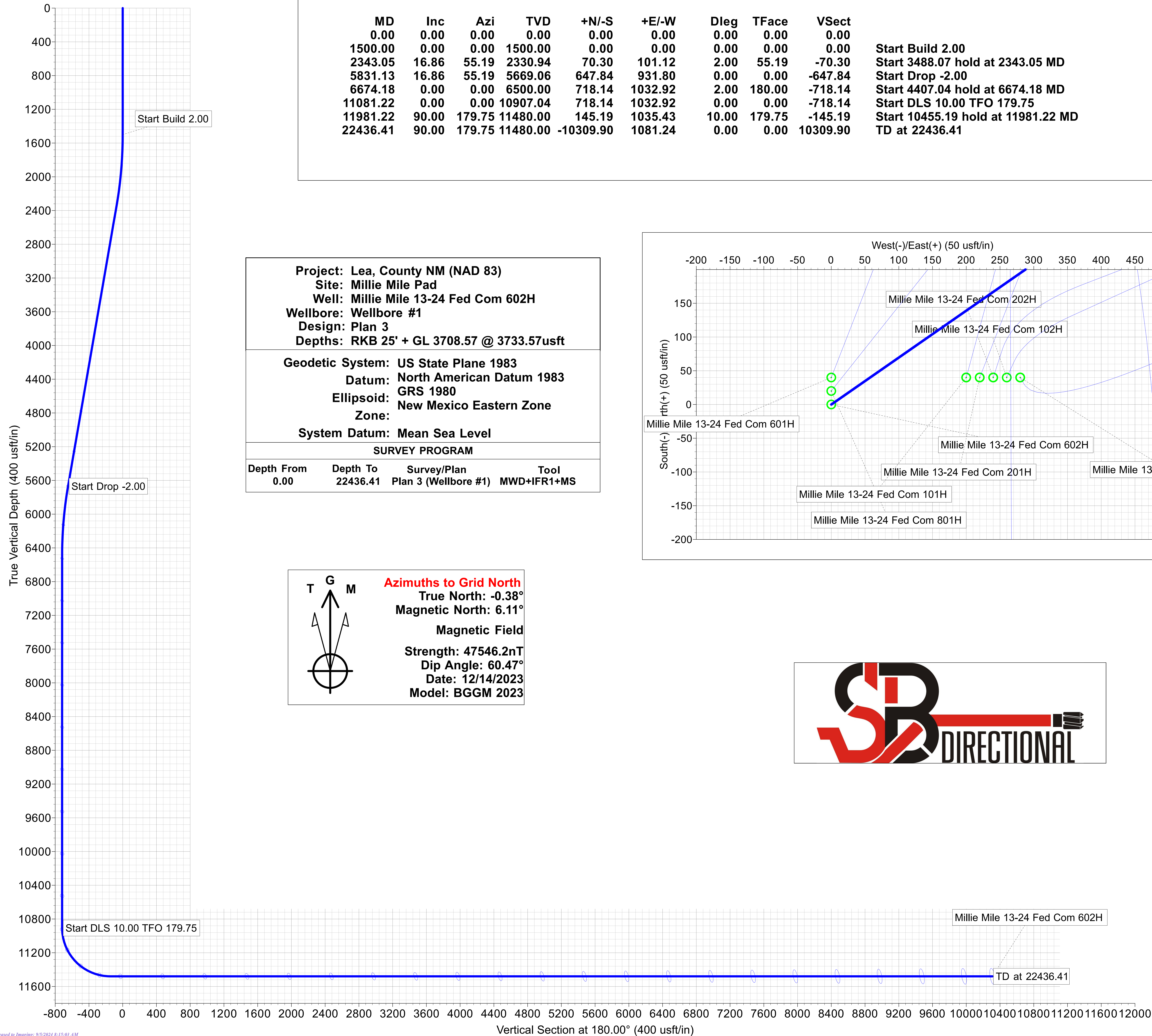
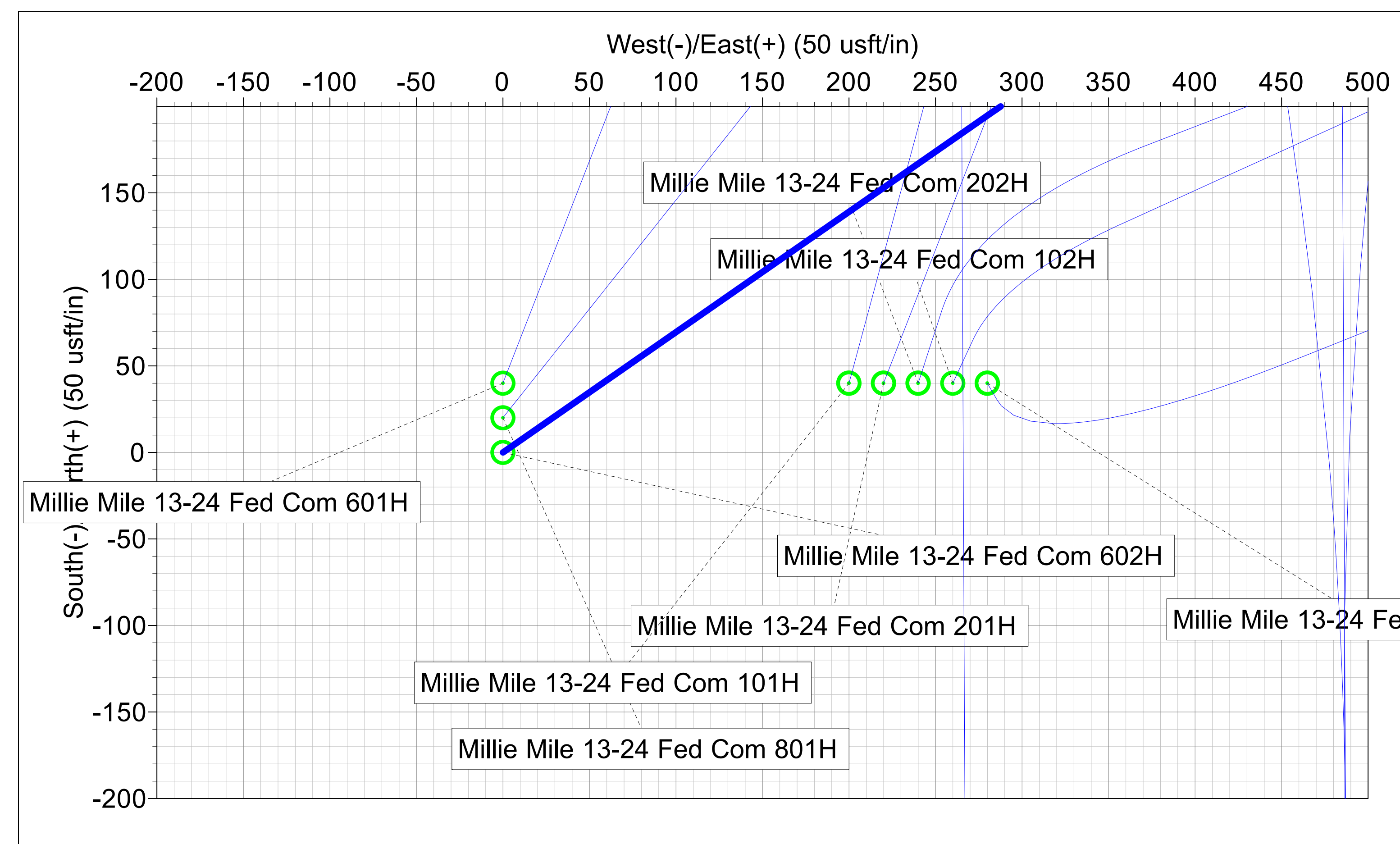
SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	22436.41	Plan 3 (Wellbore #1)	MWD+IFR1+MS



Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.11°

Magnetic Field
Strength: 47546.2nT
Dip Angle: 60.47°
Date: 12/14/2023
Model: BGGM 2023





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 .

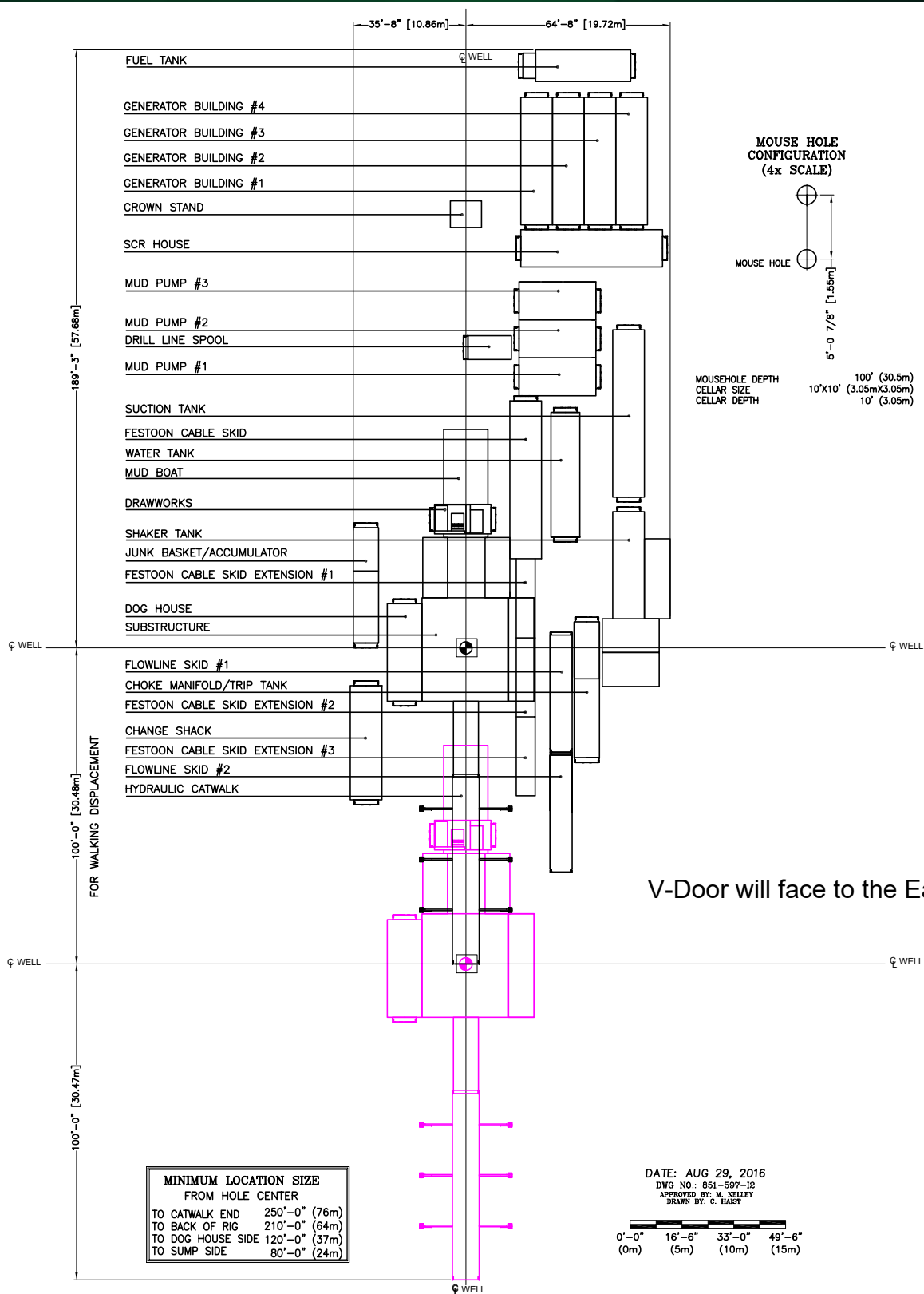
QC Manager:

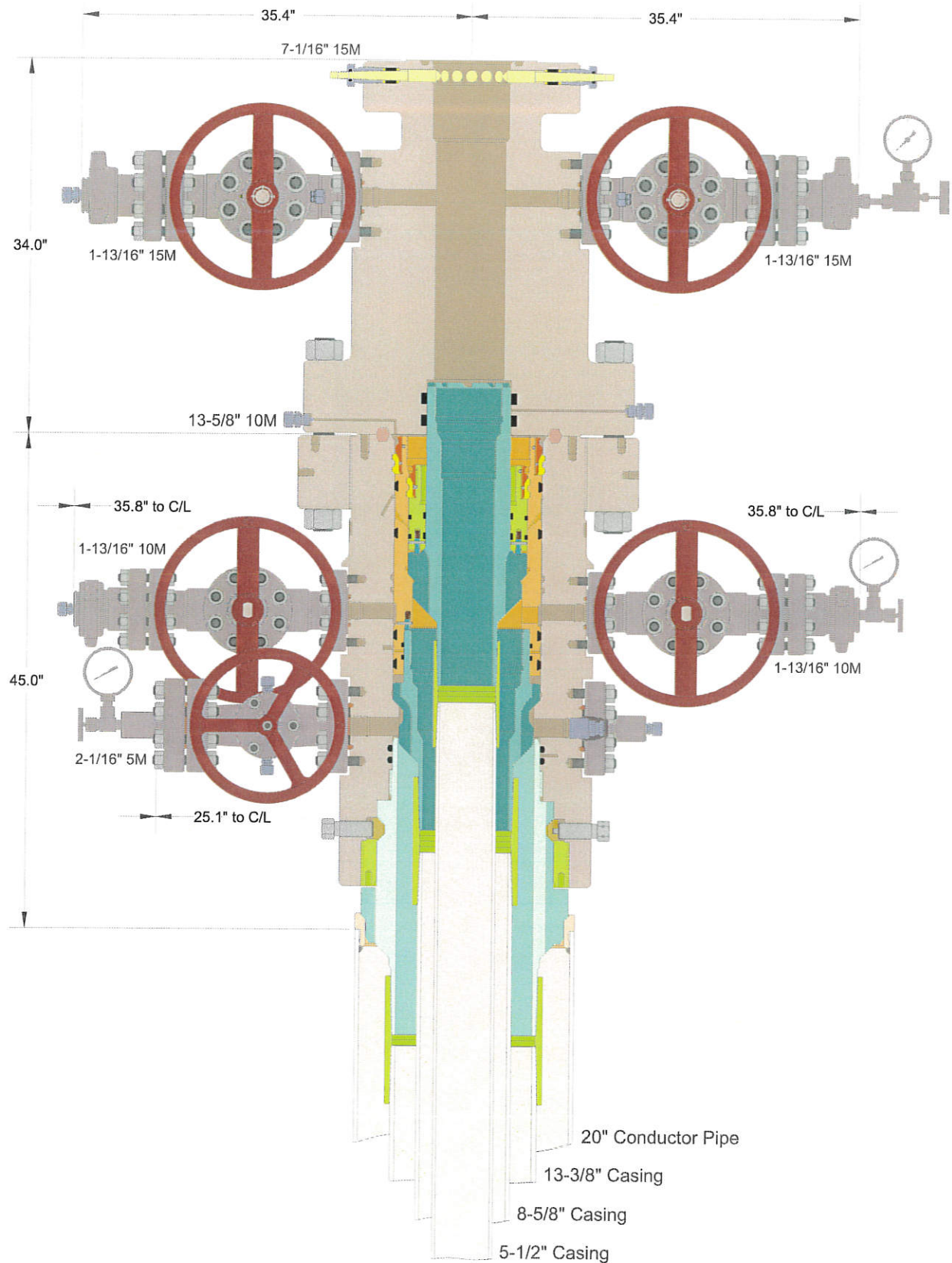
Jiaolong Chen

Date:April 22, 2023



RIG LAYOUT





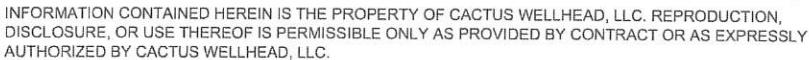
INFORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

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	



CACTUS WELLHEAD LLC

DRAWN	DLE	11AUG20
APPRV		
DRAWING NO. SDT-2810		

E.G.L. Resources, Inc.
Millie Mile 13-24 Fed Com 602H
 SHL: 244 FNL & 175 FWL' of Section 13-19S-33E
 BHL: 10 FSL & 1210 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	22,436	

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 602H
 SHL: 244 FNL & 175 FWL of Section 13-19S-33E
 BHL: 10 FSL & 1210 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 risers would preclude presetting the surface casing, then the primary riser will be run 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	1,835	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	22,436	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	10,480	P-110 HP	32	TLW	1.125	1.125	1.6
Production	7 7/8	5 1/2	API	No	0	22,436	0	11,280	P-110 EC	17	DWC/C-15 +	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	1668	1.49	2485.9	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	22436	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 exposed 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: 10400097438

Submission Date: 03/07/2024

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 602H

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_20240513184652.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Aerial_Road_Route_Map_20240513184700.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Lease_Map_20240513184724.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Topo_Map_20240513184739.pdf

PBEX_Millie_Mile_13_24_Fed_Com_Vicinity_Map_20240513184749.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_20240513191314.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:** 602H

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_602H_Existing_Wells_Map_20240513185902.pdf

PBEX_Millie_Mile_13_24_Fed_Com_602H_Existing_Wells_Map_Pg2_20240513185910.pdf

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 602H

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_20240513190453.pdf

Water source comments:

New water well? N

New Water Well Info

Operator Name: EGL RESOURCES INCORPORATED**Well Name:** MILLIE MILE 13-24 FED COM**Well Number:** 602H**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_20240513190714.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: 602H

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: 602H

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_Site_Plan_20240513190820.pdf
23_101303_Millie_Mile_13_24_Fed_Com_SS_20240513190835.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

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

Multiple 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: 602H

Total proposed disturbance: 7.63

Total interim reclamation: 0

Total long term disturbance: 0

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:** 602H**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: 602H

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: 602H

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:** 602H**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_20240513191243.pdf

PROPOSED SURFACE SITE EXHIBIT
MILLIE MILE 13-24 FED COM
SECTION 13, TOWNSHIP 18 SOUTH, RANGE 33 EAST
NEW MEXICO PRINCIPAL MERIDIAN
LEA COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 13, TOWNSHIP 18 SOUTH, RANGE 33 EAST, NEW MEXICO PRINCIPAL MERIDIAN, LEA COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 607,245.26', E: 759,263.79' / LAT: 32.667365, LONG: -103.625148, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 13, FROM WHICH A FOUND 2-INCH IRON PIPE FOR THE NORTHWEST CORNER OF SAID SECTION 13, BEARS N 00°12'30" W A DISTANCE OF 40.17 FEET;

THENCE N 89°43'41" E, A DISTANCE OF 999.63 FEET TO A POINT;
THENCE S 00°17'46" E, A DISTANCE OF 230.11 FEET TO A POINT;
THENCE S 79°52'33" W, A DISTANCE OF 1,015.15 FEET TO A POINT;

THENCE N 00°12'30" W, A DISTANCE OF 403.81 FEET TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 316,896 SQUARE FEET OR 7.27 ACRES IN SECTION 13, MORE OR LESS.

EGL RESOURCES INC.

Date: 4/26/2024



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

NOTES:
1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD83.
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 04/22/24	Date: 04/22/24	Scale: 1"=1000'	DWG: 23-101303_MILLIE MILE 13-24 FED COM_SS	
Drawn: JMJ	Checked: MJM	Job: 23-101303	REVISION NO. 1	PAGE 2 OF 2

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: 10400097438

Submission Date: 03/07/2024

Operator Name: EGL RESOURCES INCORPORATED

Well Name: MILLIE MILE 13-24 FED COM

Well Number: 602H

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: 602H

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: 602H

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: 602H

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: 10400097438

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: 602H

[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

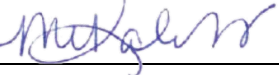
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 375150

CONDITIONS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID:
	332544
	Action Number:
	375150
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