October 2025

# Rule 34 Registration Gissler A22 RF and Containment Section 14 T17S, R30E, Eddy County

#### Volume 2

- C-147
- Stamped Design Drawings & Liner Equivalency Demonstration
- Avian Deterrent System
- Design, O&M, and Closure Plans



Air photograph of Loco Hills area showing the density of oil and gas production pads, each of which typically contains one or more wells. The high density of oil and gas wells is not an accident, and this relatively narrow trend exists between west of Artesia to near Lovington, New Mexico. It is called the Artesia-Vacuum arch or trend. This geologic arch creates a unique hydrology that is discussed in this document.

#### Prepared for: Burnett Oil Company, Inc Fort Worth, Texas

#### Prepared by:

R.T. Hicks Consultants, Ltd. 901 Rio Grande NW F-142 Albuquerque, New Mexico

Cascade Services LLC Midland, Texas

**Page 2 of 71**Form C-147

Revised October 11, 2022

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

https://www.emnrd.nm.gov/ocd/ocd-e-permitting/

Recycling Facility and/or Recycling Containment
<b>Type of Facility:</b> ✓ Recycling Facility ✓ Recycling Containment*
Type of action: ☐ Permit ☐ Registration ☐ Extension
☐ Modification       ☐ Extension         ☐ Closure       ☐ Other (explain)
At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.
advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. or does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Deerator: Burnett Oil Company Inc (For multiple operators attach page with information) OGRID #:
Address: 801 Cherry Street Unit #9 Suite 1500 Fort Worth, TX 76102
Facility or well name (include API# if associated with a well):  Gissler A22 Containment
OCD Permit Number: 2RF-229 (For new facilities the permit number will be assigned by the district office)  J/L or Qtr/Qtr F & K Section 14 Township 17S Range 30E County: Eddy
J/L or Qtr/Qtr F & K Section 14 Township 17S Range 30E County: Eddy
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
Recycling Facility:
Location of recycling facility (if applicable): Latitude 32.8315542° Longitude -103.9277382° NAD83
Proposed Use: ✓ Drilling* ✓ Completion* ✓ Production* ✓ Plugging *
*The re-use of produced water may NOT be used until fresh water zones are cased and cemented
Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on
roundwater or surface water.
✓ Fluid Storage
✓ Above ground tanks ✓ Recycling containment ☐ Activity permitted under 19.15.17 NMAC explain type
Activity permitted under 19.15.36 NMAC explain type: Other explain
For multiple or additional recycling containments, attach design and location information of each containment
Closure Report (required within 60 days of closure completion): Recycling Facility Closure Completion Date:
Recycling Containment:
Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 32.834142° Longitude -103.944306° NAD83
For multiple or additional recycling containments, attach design and location information of each containment
✓ Lined ☐ Liner type: Thickness 60 P 40 S mil ☐ LLDPE ✓ HDPE ☐ PVC ☐ Other
☐ String-Reinforced  See attached drawings
Liner Seams: Welded Factory Other Volume: 199,984 bbl Dimensions: L x W x D

☐ Recycling Containment Closure Completion Date:\_

4.							
Bonding:							
Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells	s owned or						
operated by the owners of the containment.)							
Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ (work on these facilities cannot commence	until bonding						
amounts are approved)	_						
Attach closure cost estimate and documentation on how the closure cost was calculated.							
5. Fencing:							
<ul> <li>☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>☐ Alternate. Please specify Game Fence</li> </ul>							
Alternate. Please specify — Market 1997.							
6.							
Signs:							
☑ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
☐ Signed in compliance with 19.15.16.8 NMAC							
7.							
Variances:							
Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, hur	nan health, and the						
environment.	,						
Check the below box only if a variance is requested:	1 1 1 1 4						
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested variance information on a separate page and attach it to the C-147 as part of the application.	ed, include the						
If a Variance is requested, it must be approved prior to implementation.							
8. Sixting Cuitania for Depositing Containment							
Siting Criteria for Recycling Containment							
Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.							
General siting							
Ground water is less than 50 feet below the bottom of the Recycling Containment.	☐ Yes ☑ No						
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA □						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☑ No						
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	□ NA						
- Written confirmation or verification from the municipality; written approval obtained from the municipality							
Within the area overlying a subsurface mine.							
- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes ☑ No						
Within an unstable area.							
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	☐ Yes ☑ No						
Within a 100-year floodplain. FEMA map	☐ Yes ☑ No						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	☐ Yes ☑ No						
- Topographic map; visual inspection (certification) of the proposed site							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; aerial photo; satellite image	☐ Yes ☑ No						
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	☐ Yes ☑ No						
- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site							
Within 500 feet of a wetland.							
- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes ☑ No						

**Environmental Specialist** 

Additional OCD Conditions on Attachment

X OCD Conditions

Recycling Facility and/or Containment Checklist:
Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.
<ul> <li>✓ Design Plan - based upon the appropriate requirements.</li> <li>✓ Operating and Maintenance Plan - based upon the appropriate requirements.</li> <li>✓ Closure Plan - based upon the appropriate requirements.</li> <li>✓ Site Specific Groundwater Data -</li> <li>✓ Siting Criteria Compliance Demonstrations -</li> <li>✓ Certify that notice of the C-147 (only) has been sent to the surface owner(s)</li> </ul>
10. Operator Application Certification:
I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.
Name (Print): Tyle Dears Title: Vice President - Engineering
Signature: Date: 10/02/2025
Signature: Date: 10/02/2025 e-mail address: Telephone: 432-553-4699
OCD Representative Signature: Victoria Venegas Approval Date: 11/12/2025

OCD Permit Number:\_

2RF-229

# STAMPED DESIGN DRAWINGS & LINER EQUIVELENCY DEMONSTRATION

#### R.K. FROBEL & ASSOCIATES

Consulting Engineers

#### Technical Memorandum: 40-mil HDPE as Alternative Secondary Liner System for In Ground Recycling Containment Facilities NMAC 19.15.34.12 A

I have investigated the suitability of application for 40 mil HDPE geomembrane as an equivalent secondary liner to 30 mil scrim reinforced LLDPE (LLDPEr) in the application for In Ground Recycling Containment facilities. *In summary, it is my professional opinion that the specified 40 mil HDPE geomembrane will provide a secondary liner system that is equal to or better than 30 mil scrim reinforced LLDPEr and will provide the requisite protection of fresh water, public health and the environment for many years when engineering design provides requisite site/soil/slope preparation and when used in concert with requisite primary liners and drainage layers.* 

It is understood that the lining system under discussion is composed of a 60 mil HDPE Primary liner, geonet drainage layer and a 40 mil HDPE Secondary liner. *In consideration of the secondary lining system application, size of impoundment and depth, design details as well as the chemical nature of typical processed water, it is my professional opinion that the 40 mil HDPE geomembrane will provide the requisite barrier against processed water loss and will function effectively as a secondary liner.* 

The following are discussion points that hopefully will exhibit the equivalency of a 40 mil HDPE secondary liner to that of a 30 mil LLDPEr.

The nature and formulation of the 40 mil HDPE resin is the same as the Primary 60 mil HDPE. The major difference is that the 40 mil HDPE is lower in thickness (more flexible and less puncture resistant). However, in covered conditions, HDPE will resist aging and degradation and remain intact for many decades. In fact, a secondary liner of 40 mil HDPE will outlast an exposed 60 mil HDPE liner. According to the Geosynthetic Research Institute (GRI) study on lifetime prediction (GRI Paper No. 6), the half life of HDPE (GRI GM 13) exposed is > 36 years and the half-life of HDPE covered or buried is greater than 100 years. It is understood that in order to ensure compliance of materials, the primary 60 mil HDPE to be used must meet or exceed GRI GM 13 Standards. Likewise, the secondary liner that is not exposed to the same environmental and chemical conditions must meet or exceed GRI GM 13 for non-reinforced HDPE. Adhering to the minimum requirements of the GRI Specifications, 40 mil HDPE when used as a secondary liner will be equally as protective as the primary 60 mil HDPE liner (reference: <a href="www.geosynthetic-institute.org/grispecs">www.geosynthetic-institute.org/grispecs</a>) and equally as protective as a 30 mil scrim reinforced LLDPEr liner.

<u>Durability of Geomembranes is directly affected by exposure conditions.</u> Buried or covered geomembranes are not affected by the same degradation mechanisms (UV, Ozone, Chemical, Stress, Temperature, etc) as are fully exposed geomembranes. In this regard, the secondary liner material and thickness can be much less robust than the fully exposed primary liner which in this case is 60 mil HDPE. This is also the case for

#### R.K. FROBEL & ASSOCIATES

**Consulting Engineers** 

landfill lining systems where the secondary geomembrane in a bottom landfill cell may be 40 mil HDPE.

<u>Thermal Fusion Seaming Requirements</u>. Thermal seaming and QC seam test requirements for geomembranes are product specific and usually prescribed by the sheet manufacturer. Dual wedge thermal fusion welding is commonly used on HDPE and QC testing by air channel (ASTM D 5820) is fully acceptable and recognized as an industry standard. In this regard, there should be no exception requirement for seaming and QC testing as both the Primary and Secondary geomembranes are HDPE. This is fully covered in comprehensive specifications for both the Primary and Secondary geomembranes (Reference: www.ASTM.org/Standards).

Potential for Leakage through the Primary and Secondary Liners. Leakage through geomembrane liners is directly a function of the height of liquid head above any hole or imperfection. The geonet drainage media provides immediate drainage to a low point or sump and thus no hydrostatic head or driving gradient is available to push leakage water through a hole in the secondary liner. In this regard, secondary geomembrane materials can be (and usually are) much less in thickness and also polymer type. Hydraulic Conductivity through the 40 mil HDPE liner material is extremely low due to the polymer type, structure and crystallinity and exceeds requirements of EPA SW-846 Method 9090A.

<u>Chemical Attack</u>. Chemical attack to polymeric geomembranes is directly a function of type of chemical, temperature and exposure time. Again, the HDPE Primary provides the chemically resistant liner and is QC tested to reduce potential defects or holes. If there is a small hole, the geonet drain takes any leakage water immediately to the sump for extraction. Thus, exposure time is very limited on a secondary liner in addition to low temperature, little volume and virtually no head pressure. In this regard, a chemically resistant geomembrane material such as 40 mil HDPE can be specified for the secondary and is a fully acceptable alternate to 30 mil scrim reinforced LLDPEr.

Mechanical Properties Characteristics. Geomembranes of different polymer and/or structure (i.e., reinforced vs non-reinforced) cannot be readily compared using such characteristics as tensile stress/strain, tear, puncture and polymer requirements. For a 40 mil HDPE liner material to function as a Secondary liner it should meet or exceed the manufacturers minimum requirements for Density, Tensile Properties, Tear, Puncture as well as other properties such as UV resistance. The sheet material must also meet or exceed GRI GM 13 minimum requirements. *In this regard, a 40 mil HDPE will be equivalent to a 30 mil LLDPEr as a secondary liner for the conditions listed below:* 

- The subgrade or compacted earth foundation will be smooth, free of debris or loose rocks, dry, unyielding and will support the lining system.
- The side slopes for the containment shall be equal to or less than 3H:1V.
- The physical properties and condition of the subgrade or liner foundation

#### R.K. FROBEL & ASSOCIATES

Consulting Engineers

(i.e., density, slope, moisture) will be inspected and certified by a Professional Engineer that it meets or exceeds specification requirements.

- Immediately prior to installation, the installation contractor shall inspect and sign off on the subgrade conditions that they meet or exceed the HDPE manufacturer and installers requirements.
- A protective geotextile will be placed on the finished and accepted subgrade between subgrade and the 40 mil HDPE Secondary liner.
- A 200 mil geonet will be placed over the 40 mil HDPE Secondary Liner.
- A 60 mil HDPE Primary liner will be placed over the 200 mil geonet drainage layer.

If you have any questions on the above technical memorandum or require further information, give me a call at 720-289-0300 or email <a href="mailto:geosynthetics@msn.com">geosynthetics@msn.com</a>

Sincerely Yours,

RK Frobel

Ronald K. Frobel, MSCE, PE

References:

NMAC 19.15.34.12 A DESIGN AND CONSTRUCTION SPECIFICATIONS FOR A RECYCLING CONTAINMENT

Geosynthetic Research Institute (GRI) Published Standards and Papers 2017 <a href="https://www.geosynthetic-institute.org">www.geosynthetic-institute.org</a>

ASTM Geosynthetics Standards 2017 www.ASTM.org/Standards



RECYCLING CONTAINMENT DESIGN DRAWINGS

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# CIVIL PLANS

## BURNETT OIL COMPANY INC

# GISSLER A 22 CONTAINMENT

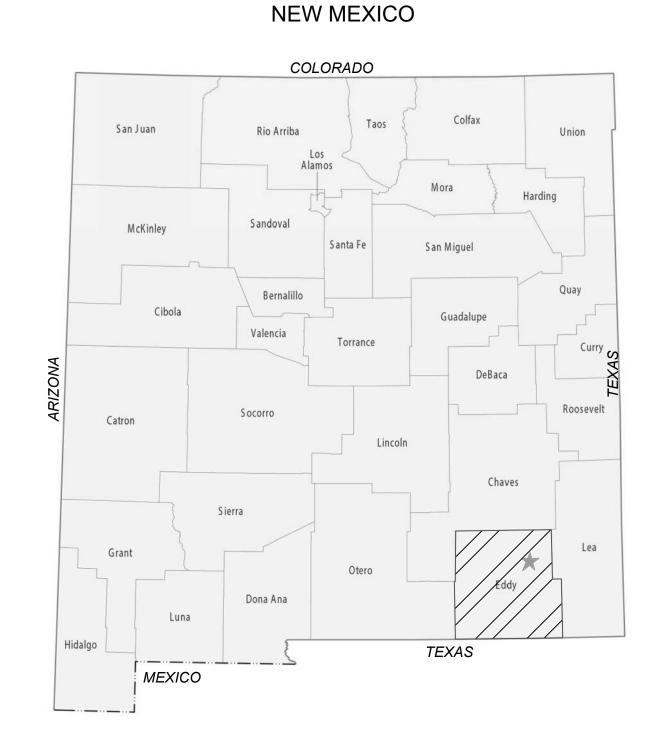
SW/4 SECTION 14, TOWNSHIP 17 SOUTH, RANGE 30 EAST N.M.P.M., EDDY COUNTY, NEW MEXICO (32.834142°, -103.944306°)





INDEX OF SHEETS					
SHEET	NAME	DESCRIPTION			
1 C	C-100	COVER SHEET			
2 S	SU-101	TOPOGRAPHIC SURVEY			
3 C	C-101	GENERAL NOTES			
4 C	CS-101	CIVIL SITE PLAN			
5 C	CS-102	CONTAINMENT PROFILES A & B			
6 C	CS-103	CONTAINMENT VOLUMES			
7 C	CS-501	LEAK DETECTION DETAILS			
8 C	CS-502	LINER DETAILS			
9 C	CS-503	FENCE DETAILS			

## EDDY COUNTY

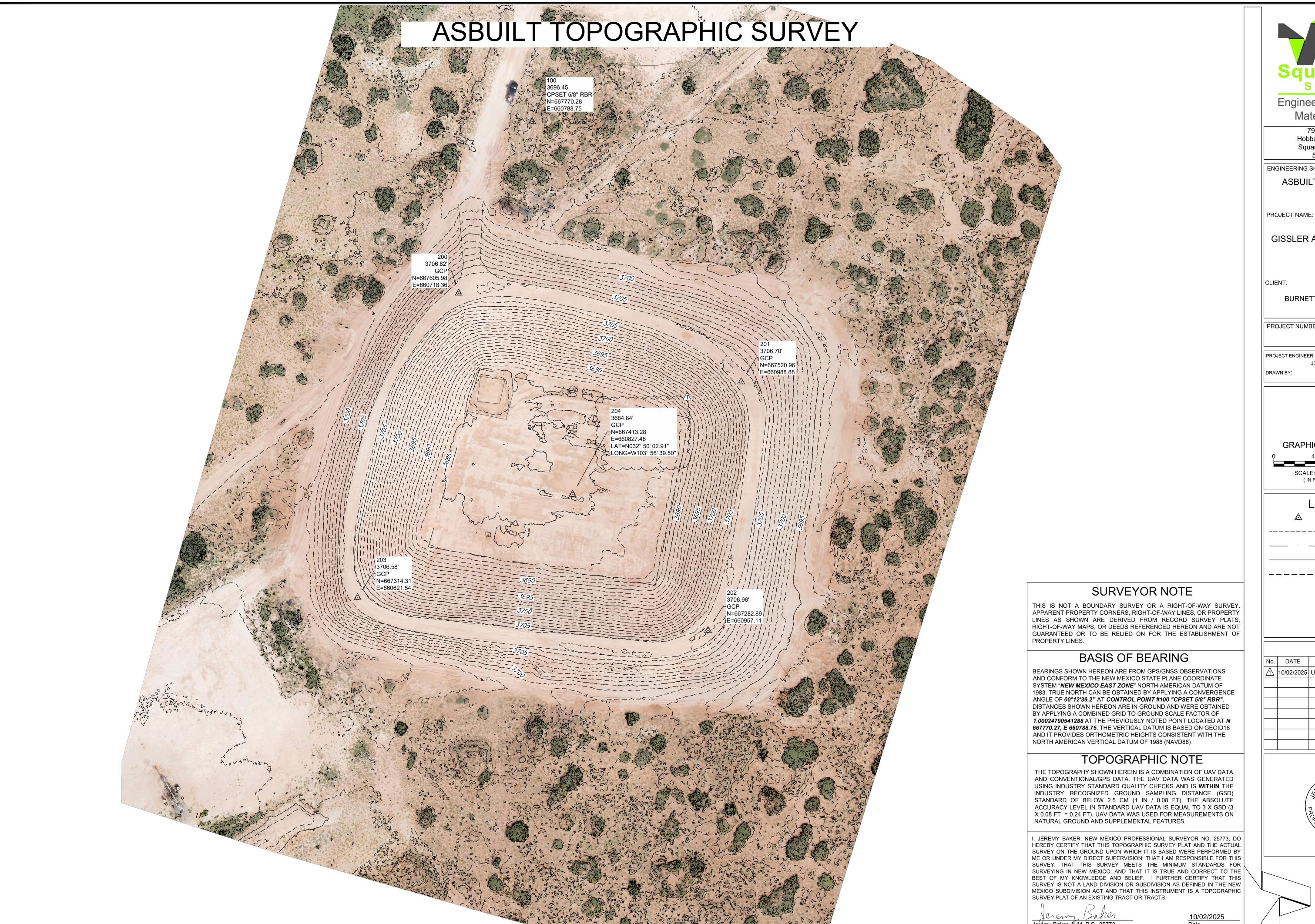




### (505)-254-7310

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.





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ENGINEERING SHEET:

ASBUILT TOPOGRAPHIC SURVEY

GISSLER A 22 CONTAINMENT

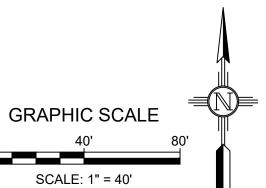
BURNETT OIL COMPANY INC

PROJECT NUMBER:

25285

PROJECT ENGINEER: JEREMY BAKER, PE

X. CLARK



LEGEND

CONTROL POINT AS NOTED

---- TOP OF EDGE

BOTTOM OF EDGE

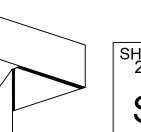
MAJOR CONTOUR (5FT)

— — — — — — MINOR CONTOUR (1FT)

REVISIONS

No. DATE DESCRIPTION 10/02/2025 UPDATED COORDINATES

Jeremy Baker, N.M. P.S 25773



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#### **GENERAL NOTES**

- NEW MEXICO ADMINISTRATIVE CODE TITLE 19, CHAPTER 15, PART 34, DESIGN CRITERIA FOR RECYCLING CONTAINMENTS SHALL APPLY TO THIS
  PROJECT.
- PROJECT.

  2. ALL BOUNDARY. TOPOGRAPHIC AND UTILITY INFORMATION SHOWN ARE BASED ON SURVEY INFORMATION FURNISHED BY TOPOGRAPHIC.
- 3. THE CONTRACTOR SHALL IDENTIFY AND LOCATE UTILITY LINES, MONITORING WELLS, SURVEY MONUMENTS, AND OTHER NEARBY STRUCTURES PRIOR TO PERFORMING WORK.
- 4. COORDINATE INFORMATION IS BASED ON STATE PLANE COORDINATES, NEW MEXICO EAST, NAD 83.
- 5. THE CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION AND CONTACT THE ENGINEER IN WRITING.
- 6. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES (BMPS) TO MINIMIZE EROSION AND CONTROL SEDIMENT TO PROTECT SURFACE WATER QUALITY DURING STORM EVENTS.

#### **EARTHWORK NOTES**

- 1. THE CONTRACTOR SHALL USE WATER FOR COMPACTION AT ALL TIMES. THE CONTRACTOR SHALL ENSURE THEIR BID INCLUDES CONSTRUCTION WATER. NO EARTHWORK OPERATIONS SHALL TAKE PLACE IF CONSTRUCTION WATER IS NOT AVAILABLE ONSITE.
- 2. THE CONTRACTOR SHALL BUILD THE LEVEES USING COMPACTED LAYERS. UNCONTROLLED AND INCONSISTENT PUSHING AND PILING OF MATERIAL FOR LEVEE CONSTRUCTION IS NOT ACCEPTABLE. THE CONTRACTOR SHALL DEVELOP A SUCCESSFUL COMPACTION PATTERN EARLY IN THE PROCESS, VERIFIED THROUGH NUCLEAR DENSITY OR SAND CONE TESTING, AND SHALL MAINTAIN CONSISTENCY IN THE COMPACTIVE EFFORT AS LONG AS THE MATERIALS ENCOUNTERED REMAINS CONSISTENT. IF ONSITE SOILS ENCOUNTERED CHANGE, THE CONTRACTOR SHALL DEVELOP A NEW COMPACTION PATTERN.
- 3. FILL FOR LEVEES SHALL BE PLACED AND COMPACTED IN HORIZONTAL LIFTS WITH MAXIMUM LOOSE LIFT THICKNESS OF 10 INCHES, OR AS DIRECTED BY ENGINEER. CONSTRUCT EACH LAYER CONTINUOUSLY AND APPROXIMATELY HORIZONTAL FOR THE WIDTH AND LENGTH OF THE LEVEE. FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY DETERMINED BY THE ASTM D698 AND AT MOISTURE CONTENT WITHIN +2% TO -2% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY A STANDARD PROCTOR SOILS TEST ON SAMPLES FROM THE SOURCE AREA.
- 4. FILL SHALL NOT BE PLACED AND COMPACTED WHEN THE MATERIALS ARE TOO WET TO PROPERLY COMPACT. MATERIAL WHICH IS TOO WET SHALL BE SPREAD ON THE FILL AREA AND PERMITTED TO DRY, ASSISTED BY HARROWING IF NECESSARY, UNTIL THE MOISTURE CONTENT IS REDUCED TO ALLOWABLE LIMITS. IF THE ENGINEER DETERMINED THAT ADDED MOISTURE IS REQUIRED, WATER SHALL BE APPLIED UNIFORMLY OVER THE AREA TO BE TREATED, AND GIVE COMPLETE AND ACCURATE CONTROL OF THE AMOUNT OF WATER TO BE USED. IF TOO MUCH WATER IS ADDED, THAT AREA SHALL BE PERMITTED TO DRY BEFORE COMPACTION IS CONTINUED.
- 5. PERFORM ONE NUCLEAR DENSITY GAGE TEST PER 2500 CY MINIMUM OR AS DIRECTED BY THE ENGINEER.
- 6. EARTHWORK CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF THE FINISHED COMPACTED POND BOTTOM AND SIDE SLOPES BEFORE HDPE LINER INSTALLATION, REMOVING ALL DEBRIS, SHARP OBJECTS AND GRAVEL LARGER THAN 3/4 INCH.
- 7. EARTHWORK CONTRACTOR SHALL ROLL SURFACE WITH A SMOOTH ROLLER TO ELIMINATE RUTS.

#### LINER NOTES

- 1. LINER CONTRACTOR SHALL INSPECT GRADED SURFACE FOR DEBRIS, ROCKS OR OTHER MATERIAL THAT MAY DAMAGE THE LINER AND COORDINATE WITH OWNER IF ADDITIONAL SUBGRADE RESURFACING IS NEEDED PRIOR TO PERFORMING WORK.
- 2. LINER CONTRACTOR TO PROVIDE SUBMITTAL OF LINER PANEL LAYOUT.
- 3. LINER CONTRACTOR TO SIGN SUBGRADE ACCEPTANCE FORM (PROVIDED BY OWNER REPRESENTATIVE) DAILY PRIOR TO INSTALLATION.
- 4. LINER TO BE INSTALLED PER GRI SPECIFICATIONS, GUIDES AND PRACTICES.
- 5. CONTRACTOR SHALL PLACE SANDBAGS ON LINER DURING INSTALLATION AS REQUIRED TO PREVENT WIND UPLIFT UNTIL POND IS FILLED TO A DEPTH OF 3 FEET.
- 6. CONTRACTOR SHALL USE BLACK 60 MIL HDPE SMOOTH GEOMEMBRANE AS THE PRIMARY LINER AND BLACK 40 MIL HDPE SMOOTH GEOMEMBRANE AS THE SECONDARY LINER.
- 7. A 3' DIAMETER MINIMUM PIECE OF 40MIL LINER SHALL BE EXTRUDED WELDED WHERE THE PIE SHAPED CORNER SECTIONS MEET FOR SEAM REINFORCEMENT.
- 8. INSTALL A FULL DOUBLE WIDTH SECTION OF BLACK OR WHITE 60 MIL TEXTURED HDPE GEOMEMBRANE RUB SHEET. EXTRUDE WELD TO LINER.
  WELDS SHALL BE 2" LONG AND SPACED EVERY 12" ALONG BOTH SIDES OF THE SHEET. DO NOT WELD END EDGES. SECTION SHALL EXTEND FROM
  SUMP AND INSTALLED INTO LINER ANCHOR TRENCH AS SHOWN.
- 9. LINER SHALL BE PROTECTED WITH A 8 OZ. NONWOVEN GEOTEXTILE IF ROCK OR OTHER ANGULAR MATERIALS WITH A DIMENSION GREATER THAN 3/4 INCH ARE PRESENT.
- 10. SUMPS SHALL BE BACKFILLED WITH NON-ANGULAR MAXIMUM 3/8 INCH SIZED PEA GRAVEL.
- 11. ALL SEAMS MUST BE WELDED WITH A 6" MINIMUM OVERLAP.
- 12. CONTRACTOR SHALL NON-DESTRUCTIVELY TEST ALL SEAMS THEIR FULL LENGTH USING AN AIR PRESSURE OR VACUUM TEST, THE PURPOSE OF THIS TEST IS TO CHECK THE CONTINUITY OF THE SEAM.
- 13. FOR AIR PRESSURE TESTING (ASTM 5820), THE FOLLOWING PROCEDURES ARE APPLICABLE TO THE SEAMS WELD WITH DOUBLE SEAM FUSION WELDER.
  - a. THE EQUIPMENT USED SHALL CONSIST OF AN AIR TANK OR PUMP CAPABLE OF PRODUCING A MINIMUM 35 PSI AND A SHARP NEEDLE WITH A PRESSURE GAUGE ATTACHED TO INSERT INTO THE AIR CHAMBER.
  - b. SEAL BOTH ENDS OF THE SEAM BY HEATING AND SQUEEZING THEM TOGETHER. INSERT THE NEEDLE WITH THE GAUGE INTO THE AIR CHANNEL. PRESSURIZE THE AIR CHANNEL TO A MINIMUM OF 35 PSI. NOTE TIME STARTS AND WAIT A MINIMUM OF 5 MINUTES TO CHECK. IF PRESSURE AFTER 5 MINUTES HAD DROPPED LESS THAN 2 PSI THE TEST IS SUCCESSFUL (THICKNESS OF MATERIAL MAY CAUSE VARIANCE).
  - c. CUT OPPOSITE SEAM END AND LISTEN FOR PRESSURE RELEASE TO VERIFY FULL SEAM HAS BEEN TESTED.
  - d. IF THE TEST FAILS, FOLLOW THESE PROCEDURES.
    - I. WHILE CHANNEL IS UNDER PRESSURE WALK THE LENGTH OF THE SEAM LISTENING FOR A LEAK.
    - II. WHILE CHANNEL IS UNDER PRESSURE APPLY A SOAPY SOLUTION TO THE SEAM EDGE AND LOOK FOR BUBBLES FORMED BY AIR ESCAPING.
      III. RE-TEST THE SEAM IN SMALLER INCREMENTS UNTIL THE LEAK IS FOUND.
  - e. ONCE LEAK IS FOUND USING ONE OF THE PROCEDURES ABOVE, CUT OUT THE AREA AND RETEST THE PORTIONS OF THE PORTIONS OF THE SEAM PASS THE SEAMS BETWEEN THE LEAK AREAS PER 6A AND 6B ABOVE. CONTINUE THIS PROCEDURE UNTIL ALL SECTIONS OF THE SEAM PASS THE PRESSURE TEST.
  - f. REPAIR THE LEAK WITH A PATCH AND VACUUM TEST.
- 14. ALL NON-DESTRUCTIVE TESTS WILL BE NOTED IN THE NON-DESTRUCTIVE LOGS.
- 15. LINER GAS VENTS SHALL BE SPACED ALONG THE INSIDE SLOPE AT APPROXIMATELY 100 FEET ON CENTER OR MINIMUM 2 VENTS PER SIDE.
- 16. WHEN ANY PIPING EQUIPMENT, INLET, OR OUTLET IS IN DIRECT CONTACT WITH THE LINER, AN APRON CONSISTING OF 60 MIL HDPE MATERIAL SHALL BE INSTALLED BENEATH THE EQUIPMENT OR STRUCTURE TO PROTECT THE PRIMARY LINER.
- 17. LAY BOTH LINERS IN ANCHOR TRENCH. BACKFILL ANCHOR TRENCH IN 2 LIFTS AND COMPACT.

#### SUGGESTED CONSTRUCTION SEQUENCE

- 1. CLEAR EXISTING VEGETATION.
- 2. STRIP AND STOCKPILE TOPSOIL AT THE LOCATION DESIGNATED ON THESE PLANS.
- 3. PERFORM EARTHWORK OPERATIONS:
- 3.1. CONSTRUCT STORMWATER DIVERSION CHANNEL
- 3.2. PERFORM RIPPING/EXCAVATING OPERATIONS.
- 3.3. REPLACE EXCAVATED MATERIAL IN COMPACTED LAYERS ON THE LEVEE/PAD IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS.
- 3.4. FINISH SLOPES USING A SMOOTH ROLLER.
- 3.5. DIG ANCHOR TRENCH.
- 4. INSTALL NEW GAME FENCE AND GATES.

#### 5. INSTALL GEOMEMBRANES:

- 5.1. INSTALL GEOTEXTILE AS NEEDED, SECONDARY LINER, GEONET, LEAK DETECTION SYSTEM AND PRIMARY LINER.
- 5.2. INSTALL RUB SHEETS AND WATER LEVEL GAGE/LADDER.
- 5.3. BACKFILL AND COMPACT ANCHOR TRENCH.



Engineering | Surveying
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GENERAL NOTES

ENGINEERING SHEET:

PROJECT NAME

OF

**GISSLER A 22 CONTAINMENT** 

FOR

CLIENT:

BURNETT OIL COMPANY INC

PROJECT NUMBER:

25285

PROJECT ENGINEER:

JEREMY BAKER, PE

DRAWN BY: X. CLARK

REVISIONS

DATE DESCRIPTION

16207

BAKEN

16207

WEXES

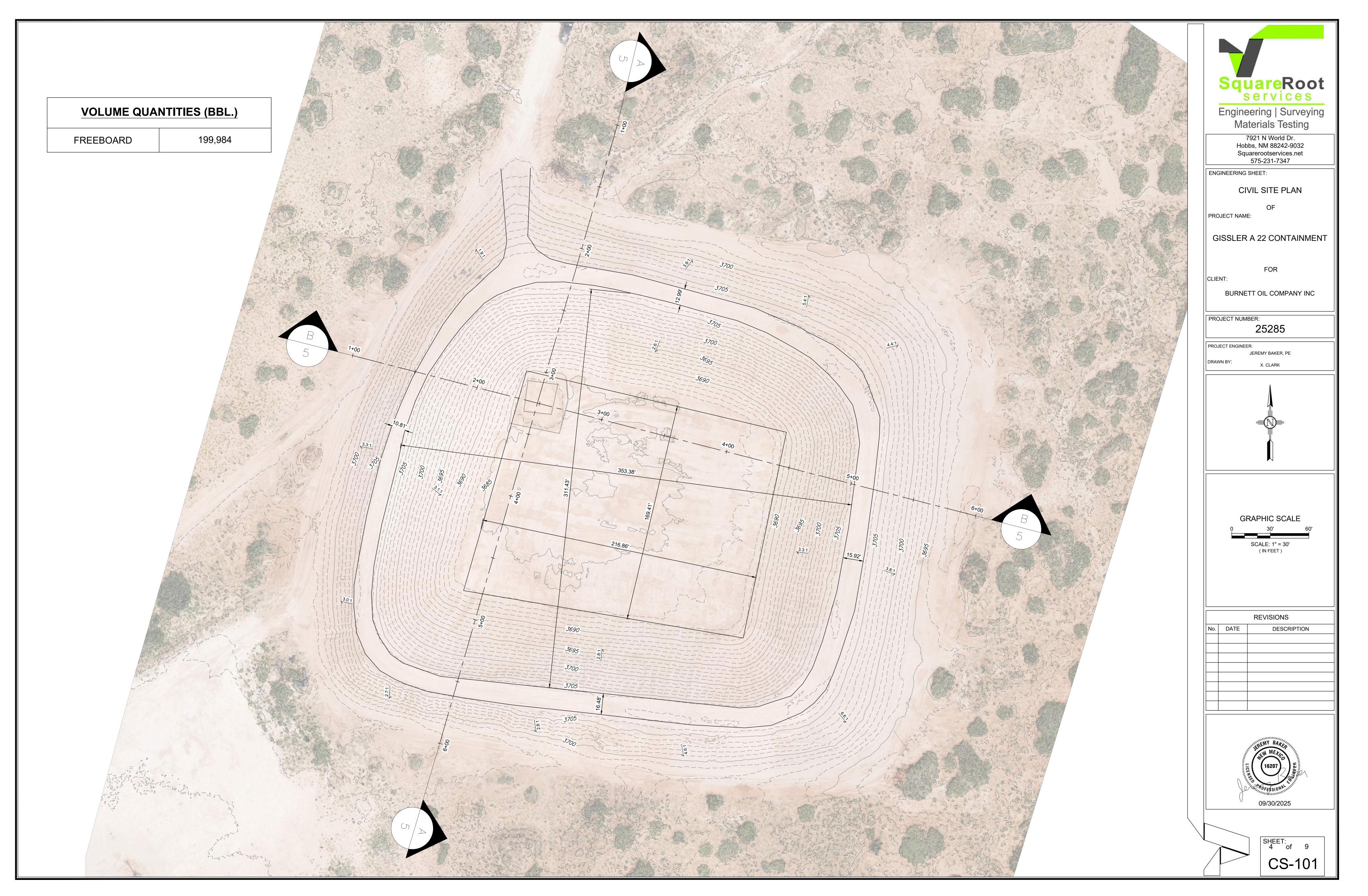
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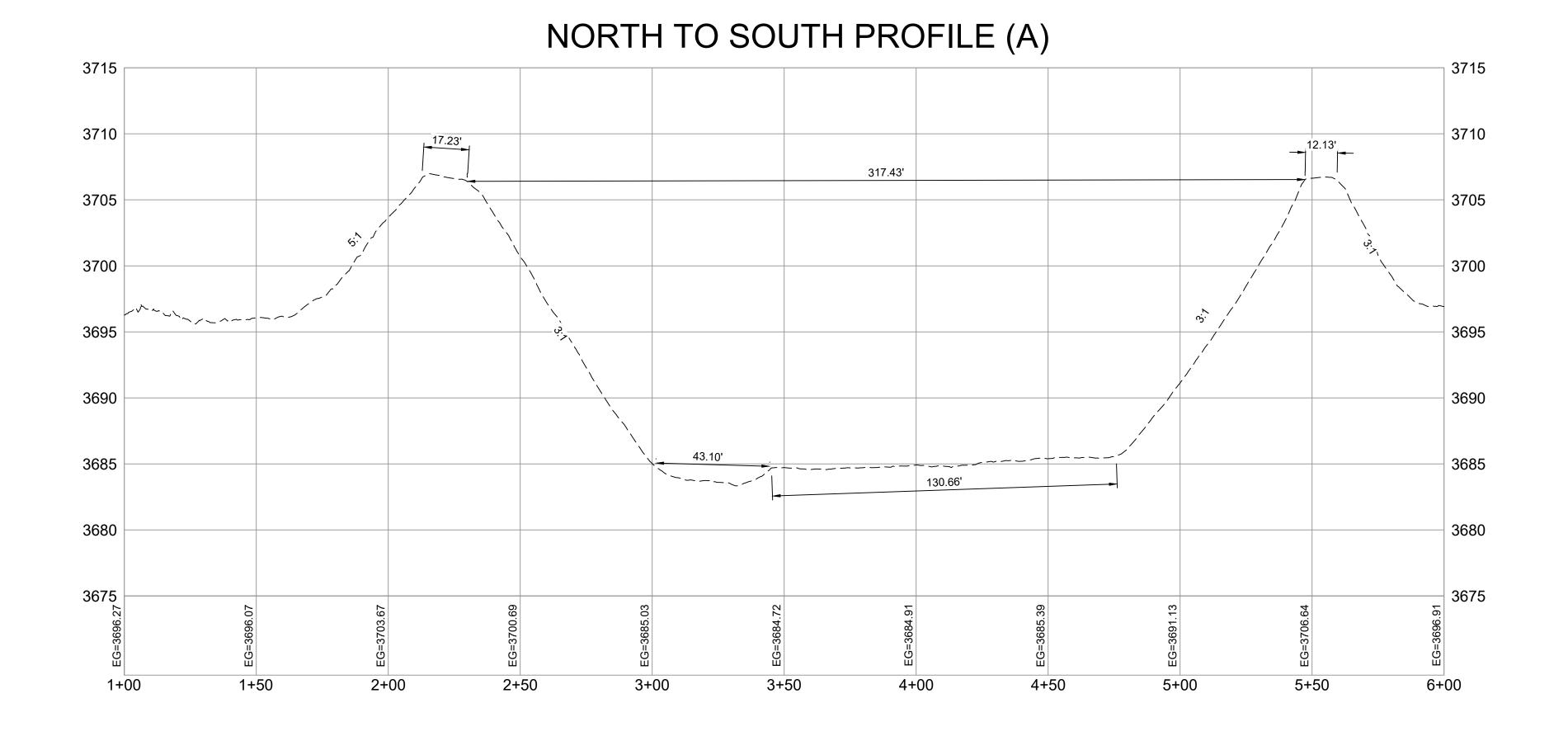
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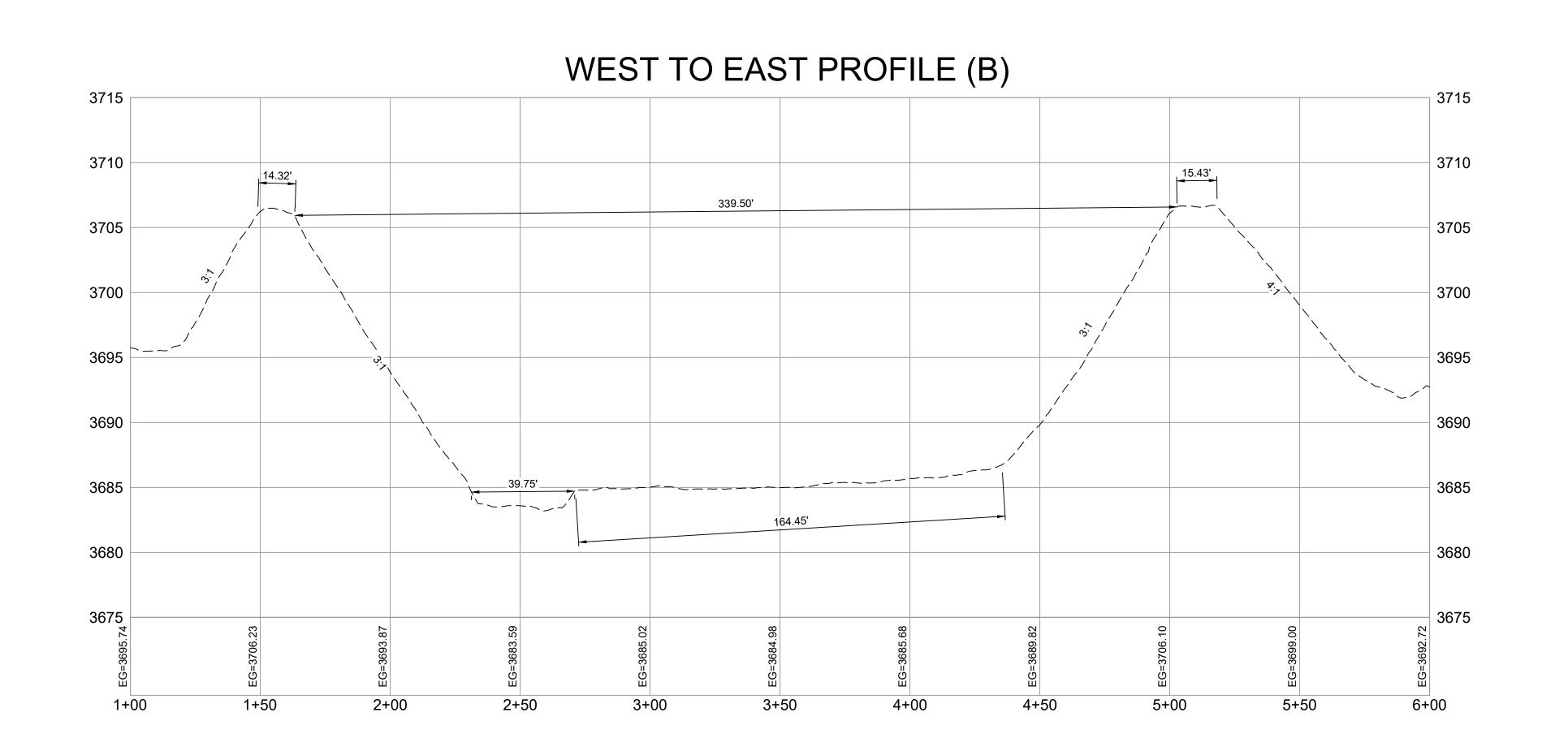
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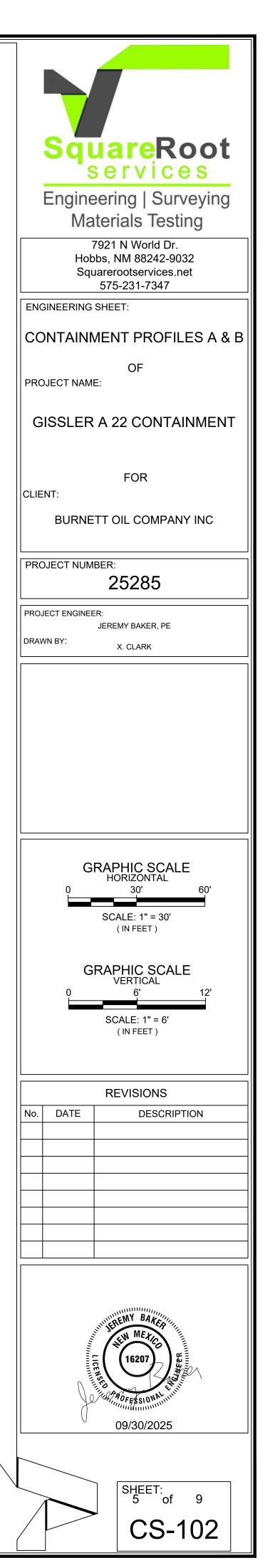


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## CONTAINMENT VOLUME

GAUGE ELEVATION (FT)	ELEVATION (FT)	CONTAINMENT DEPTH (FT)	REMAINING STORAGE (FT)	REMAINING STORAGE VOL (FT3)	REMAINING STORAGE VOL (GAL)	REMAINING STORAGE VOL (BBL)	PERCENT OF TOTAL VOL (%)	VOL IN CONTAINMENT (FT3)	VOL IN CONTAINMENT (GAL)	VOL IN CONTAINMENT (BBL)	VOL IN CONTAINMENT (AC-FT)	PERCENT OF TOTAL VOL (%)	
23	3,706.30	0	23	0	-	-	0%	1,405,450	10,514,173	250,303	32.26	100%	
22	3,705.30	1	22	97,654	730,549	17,392	7%	1,307,796	9,783,624	232,911	30.02	93%	FREEBOARD
21	3,704.30	2	21	191,684	1,433,989	34,138	14%	1,213,766	9,080,184	216,165	27.86	86%	
20	3,703.30	3	20	282,538	2,113,667	50,318	20%	1,122,912	8,400,506	199,984	25.78	80%	MAX VOLUME
19	3,702.30	4	19	370,255	2,769,880	65,940	26%	1,035,195	7,744,293	184,362	23.76	74%	
18	3,701.30	5	18	454,850	3,402,734	81,006	32%	950,600	7,111,439	169,297	21.82	68%	
17	3,700.30	6	17	536,327	4,012,260	95,517	38%	869,124	6,501,913	154,786	19.95	62%	
16	3,699.30	7	16	614,727	4,598,775	109,479	44%	790,723	5,915,397	140,823	18.15	56%	
15	3,698.30	8	15	690,094	5,162,594	122,902	49%	715,356	5,351,579	127,401	16.42	51%	
14	3,697.30	9	14	762,453	5,703,911	135,789	54%	642,997	4,810,262	114,514	14.76	46%	STORAGE
13	3,696.30	10	13	831,786	6,222,589	148,136	59%	573,664	4,291,583	102,166	13.17	41%	<u>VOLUME</u>
12	3,695.30	11	12	898,105	6,718,726	159,948	64%	507,345	3,795,447	90,355	11.65	36%	
11	3,694.30	12	11	961,534	7,193,236	171,244	68%	443,916	3,320,937	79,059	10.19	32%	
10	3,693.30	13	10	1,022,096	7,646,303	182,030	73%	383,354	2,867,870	68,273	8.80	27%	
9	3,692.30	14	9	1,079,771	8,077,767	192,301	77%	325,679	2,436,406	58,002	7.48	23%	
8	3,691.30	15	8	1,134,544	8,487,522	202,056	81%	270,906	2,026,651	48,247	6.22	19%	
7	3,690.30	16	7	1,186,412	8,875,549	211,293	84%	219,038	1,638,624	39,009	5.03	16%	
6	3,689.30	17	6	1,235,301	9,241,287	220,000	88%	170,149	1,272,886	30,303	3.91	12%	
5	3,688.30	18	5	1,281,239	9,584,952	228,182	91%	124,211	929,221	22,121	2.85	9%	<u>FLOOR</u>
4	3,687.30	19	4	1,324,289	9,907,008	235,848	94%	81,161	607,165	14,454	1.86	6%	<u>VOLUME</u>
3	3,686.30	20	3	1,364,001	10,204,094	242,921	97%	41,449	310,078	7,382	0.95	3%	
2	3,685.30	21	2	1,395,412	10,439,076	248,515	99%	10,038	75,097	1,788	0.23	1%	<u>SUMP</u>
1	3,684.30	22	1	1,404,680	10,508,412	250,166	100%	770	5,761	137	0.02	0%	VOLUME
0	3,683.30	23	0	1,405,450	10,514,173	250,303	100%	0	0	0	0.00	0%	



7921 N World Dr. Hobbs, NM 88242-9032

Squarerootservices.net 575-231-7347

ENGINEERING SHEET:

CONTAINMENT VOLUMES

PROJECT NAME:

GISSLER A 22 CONTAINMENT

FOR

BURNETT OIL COMPANY INC

PROJECT NUMBER: 25285

CLIENT:

PROJECT ENGINEER:

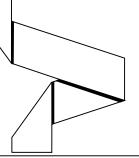
JEREMY BAKER, PE

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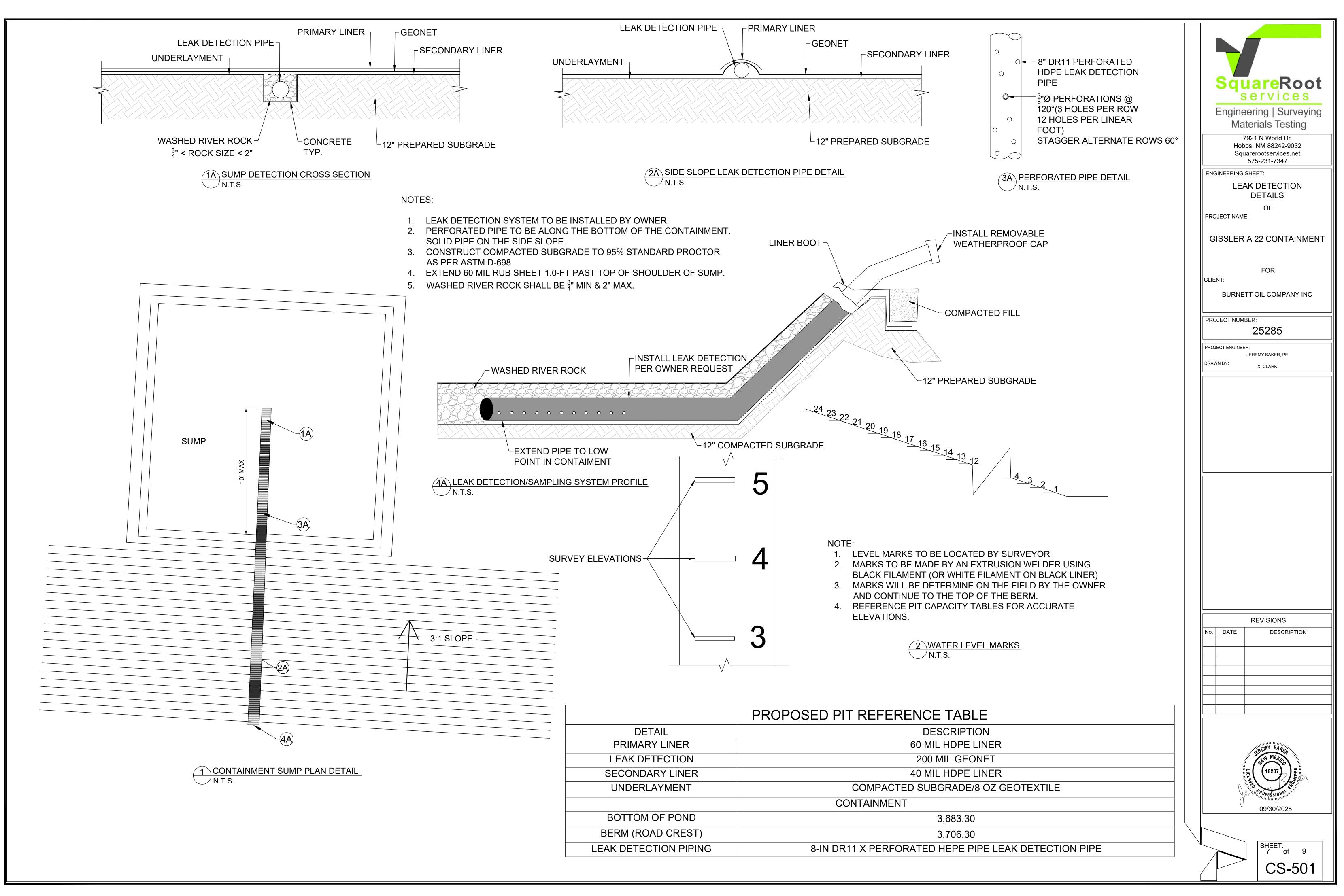
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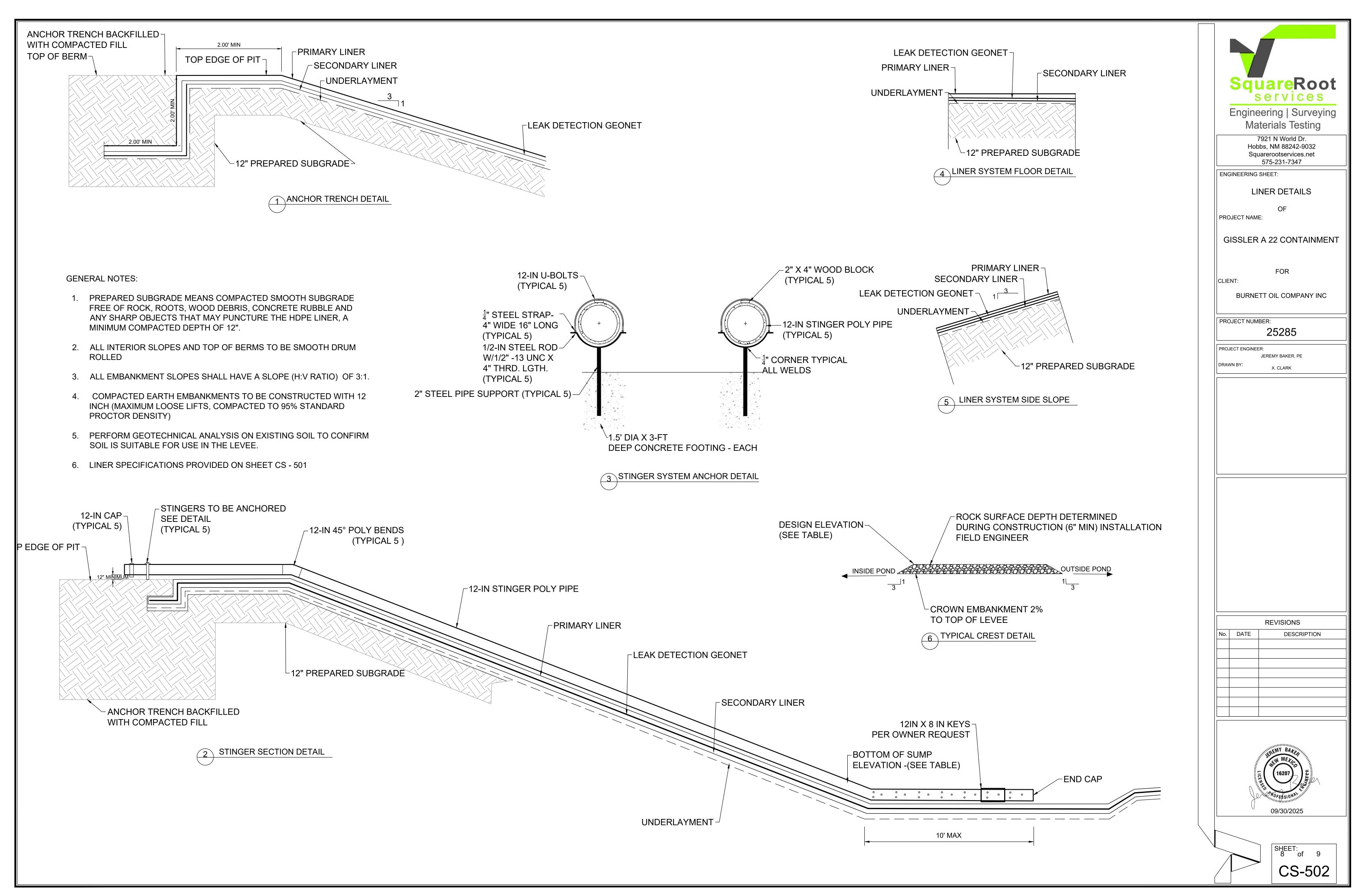




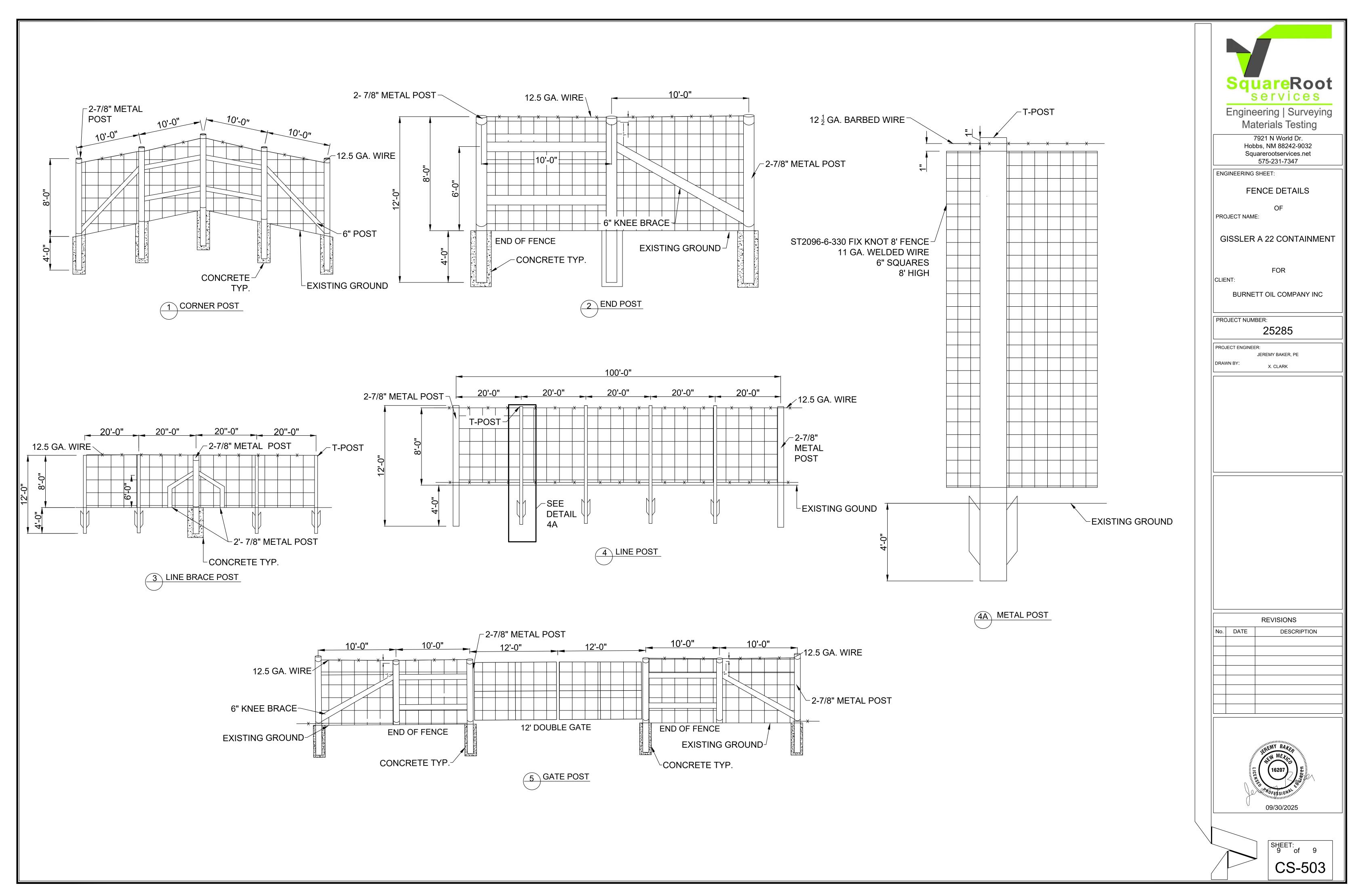
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**ALR Calculations** 

Burnett Oil Company Inc Company: Facility: Gissler A 22 Containment Eddy County, NM County: Date: 10/2/2025 Project Number: 25285



In accordance with EPA document "Action Leakage Rates for Leak Detection Systems" the following calculation has been prepared by Square Root Services for the purpose of determining action leakage rates (ALR) in surface impoundments. If both the LDS and the sump can accommodate the flow from the defects, the Maximum ALR is determined by the lowest of the three calculation mentioned. The ALR is the total flow from the defects in gallons/acre/day without exceeding 1 foot of head pressure on the bottom liner.

	P1 P + + 1	Pit Information	E. W. Barris
	Pit Details		Facility Details
	Pit Top	3	Slope 1:
324.54	L <sub>1</sub> (ft)	23.0	Depth of Pond (ft)
311.43	W <sub>1</sub> (ft)	3.0	Freeboard (ft)
2.32	A <sub>1</sub> (Acre)	20.0	Operational Heights of Liquids Above Primary Liner (ft)
	Pit Bottom		Sump Details
213.92	L <sub>2</sub> (ft)	1	Quantity of Sumps
170.51	W <sub>2</sub> (ft)	47.2	Length (ft)
0.84	A <sub>2</sub> (Acre)	35.0	Width (ft)
	Liner Details	3.0	Depth (ft)
200	Underlayment Geotextile (mil, Thousand of an inch)		
60	Primary (mil, Thousand of an inch)		
40	Leak Detection (mil, Thousand of an inch)		
		Flow Rate from Defects	
Free	Flow Rate Through a Hole in the Geomembrane		
	Q= Cb*d <sup>2</sup> *sqrt(g*h <sub>prim</sub> )	1998 Giroud and Bonaparte (Equa	ation 22)
0.667	Cb	Dimensionless Co. (Co.)	20 Circuit and Demonstra
0.667		Dimensionless Coefficient per 19	oo oiiouu and Bonaparte
0.001524	d (m)	Defect Diameter	
9.81	g (m/sec²)	acceleration due to gravity	
6.10	h <sub>prim</sub> (m)	Operational Heights of Liquids Ab	ove Primary Liner
	Q = Maximum Flow Rate per Defect		
1.198E-05	Q (m³/sec)		
1.035	Q (m <sup>3</sup> /day)		
273.43	Q (Gal/Day)		
		Action Leakage Rate (ALR)	
	Action Leakage Rate (ALR) = (Q)(N)/Acre		
1.035	$Q = m^3/day$	Maximum Flow Rate per Defect	
	$N = (F)(A_{LCL})$		
4.046.06	Frequency of defects per m <sup>2</sup> of geomembrane, expressed	as 1000 Circuit and Barrante (Cart	: 2 2 7\
4,046.86	1 defect per x (1 Defect per Acre)	1998 Giroud and Bonaparte (Sect	ion 2.3.7)
F =	Frequency of Defects per m <sup>2</sup> of Geomembrane		
0.00025	F (1/ m <sup>2</sup> )	Frequency of Defects	
9,390.18	A <sub>LCL</sub> (m <sup>2</sup> )	Area of Leakage Collection Layer	
2.0	N	Number of Defects	
2.32	Acres	Pit Top Area	
0.89	ALR (m³/day/acre)	110071100	
235.68	ALR (gal/day/acre) (GPDA)	_	
255.00		ite (Q <sub>full</sub> ) within the Leak Detection L	aver Geonet
	Q <sub>full</sub> = T(2*h-t)	Equation 3 from EPA 530-R-92-00	
	k = T / t <sub>LCL</sub>	Hydraulic Conductivity	<u> </u>
0.002	T (m²/sec)		
0.002	t <sub>LCL</sub> (m)	Manufactures Transmitivity Test Thickness of Leak Detection Layer	•
		· ·	
1.00	h (ft)	Maximum Height of Liner	
0.30	h (m)	Maximum Flow Rate within the G	
1.209E-03	Q <sub>full</sub> (m³/sec)	iviaximum Flow Rate Within the G	eonet
104.46	Q <sub>full</sub> (m³/day)		
5518.87	Q <sub>full</sub> (Gal/acre/day) (SF = 5)		
		Maximum Flow Rate into Sump	
	Q <sub>sump</sub> =T*i*Psump	1	4
0.002	T (m²/sec)	Manufactures' Transmitivity Test	- annumna.
0.011	i (ft/ft)	Hydraulic Gradient	- BAKELL
164.2	Psump (ft)	Sump Perimeter	- CA THE
50.1	Psump (m)		□ S N MEX
0.0011	Q <sub>sump</sub> (m <sup>3</sup> /sec)	Maximum Flow Rate into Sump	
95.15	Q <sub>sump</sub> (m <sup>3</sup> /day)		16207 BAKEA
25,135.99	Q <sub>sump</sub> (Gal/day)		□
6,003.61	Q <sub>sump</sub> (Gal/acre/day) FS = 5		
235.68	Flow From Defect(gal/day/acre)	Flow from Defect	
5,518.87	Q <sub>full</sub> (Gal/acre/day)	LDS Max Allowable Flow Rate	
6 003 61	O (Gal/acre/day)	Max Allowable Flow into Sump	

Max Allowable Flow into Sump

Q<sub>sump</sub> (Gal/acre/day)

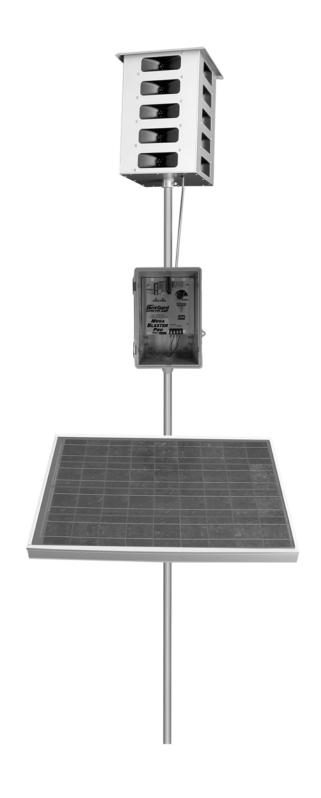
### **AVIAN DETERRENT SYSTEM**

## MEGA BLASTER PRO



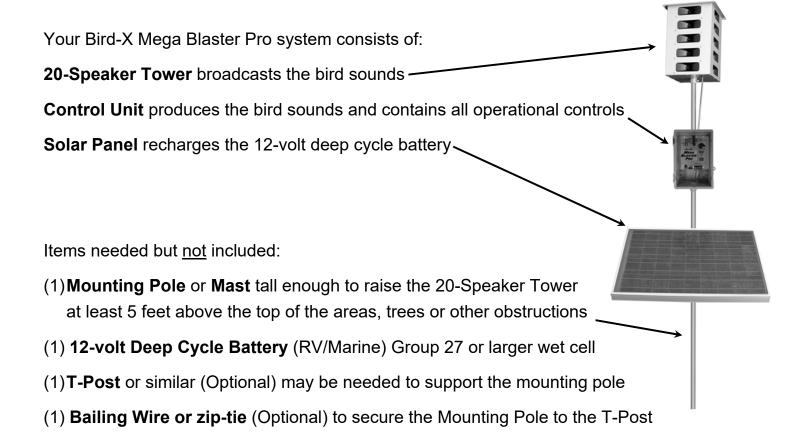
### User's Manual

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### Overview

The Bird-X Mega Blaster Pro utilizes the innate power of the natural survival instincts of birds to effectively repel them. Digital recordings of distressed and alarmed birds, along with the sounds made by their natural predators are broadcast through high fidelity weather-resistant speakers over the top of areas. This action triggers a primal fear and flee response. Pest birds soon relocate to where they can feed without feeling threatened.



CAUTION: THE MEGA BLASTER PRO IS CAPABLE OF PRODUCING SOUNDS UP TO 125 DECIBELS. PROPER HEARING PROTECTION MUST BE WORN ANYTIME THE UNIT IS TURNED ON.



## Bird Control Management Guidelines

An active bird control management program is a key to successfully repelling pest birds. Bird feeding patterns may take several days or weeks to break. Follow all suggestions for maximum effectiveness. Read all instructions prior to installation.

#### For best results:

- It is extremely important to fully protect your entire area from birds. Any areas not fully protected will allow birds to begin feeding at the fringes of the sound coverage. They will soon become bolder and learn the sounds are nothing to fear. This will cause the effectiveness to diminish. Complete Bird-X product coverage forces birds to leave the area entirely.
- Install the Mega Blaster Pro unit at least two weeks before birds are attracted to your area. It is much easier to keep birds away before they have found a food source than it is to repel them once they have developed a feeding pattern.
- Most birds begin feeding from the perimeter of an area. Place Mega Blaster Pro units so the sound protection covers
  past the edges of the area.
- Birds will often use tall trees for roosting and observation. If birds are in bordering trees it is necessary to position the
  units so the sound protection covers the trees as well.
- Mount the 20-Speaker Tower at least five feet above trees, areas and structures for maximum coverage. The higher the better. Sound will disperse or reflect off structures or foliage. Mount control unit out of direct sun, if possible.
- When first installed, run Mega Blaster Pro units at FULL volume and on SHORT time off periods. This ensures maximum "bird stress" and creates a hostile environment.
- Watch for changes in bird activity and adjust the location of your Mega Blaster Pro unit if needed.
- Check the battery and unit settings often to insure continuous bird control. Be certain that the system is not turned down or has a dead battery. Field hands or harvesters may turn down the volume.
- Changing settings and switches often helps to prevent bird habituation. Periodically change the switch settings of the
  eight sounds (turning them ON or OFF). NEVER turn OFF the distress calls of the target birds you are trying to repel
  and always keep at least one predator bird sound turned ON.
- If different bird species enter the protected area and begin causing damage contact us immediately for an updated Sound Recording Card designed to repel the new invading birds.
- Remember that the Mega Blaster Pro system is a management tool, and should be used as part of your overall bird control strategy, sometimes in conjunction with other bird control techniques and devices.

Be aware that under extreme drought or other adverse conditions, birds will disregard all deterrents and risks in order to survive

### DESIGN/CONSTRUCTION PLAN

## Design and Construction Plan In Ground Containments

This plan addresses construction of the earthen containments.

#### Dike Protection and Structural Integrity

The design and operation provide for the confinement of produced water, prevention of releases and prevention of overtopping due to wave action or rainfall. Additionally, the design prevents run-on of surface water as the containment is surrounded by an above-grade levee (a berm) and/or diversion ditch (between the levee and the soil stockpile) to prevent run-on of surface water.

#### Stockpile Topsoil

Where topsoil is present, prior to constructing containment, the operator will strip and stockpile the topsoil for use as the final cover or fill at the time of closure.

#### Signage

The operator will place an upright sign no less than 12 inches by 24 inches with lettering not less than two inches in height in a conspicuous place on the fence surrounding the containment. The sign is posted in a manner and location such that a person can easily read the legend. The sign will provide the following information:

- the operator's name,
- the location of the site by quarter-quarter or unit letter, section, township and range, and
- emergency telephone numbers

#### **Fencing**

The operator will provide for a fence to enclose the recycling containment in a manner that deters unauthorized wildlife and human access. As specified in the design drawings, the operator will employ a chain-link or game fence. If required by the District Office, the operator will add four-strands of barbed wire to comply with the text of the Rule. Because feral pigs, javelina and deer are present in the area, a chain link or game fence is required in order to comply with Section 19.15.34.12 D.1 of the Rule because pigs will move beneath the lower strand of a 4-strand, 4-foot high barbed wire fence and deer will jump over. However, 19.15.34.12 D.2 requires "a four-foot fence that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level". Therefore, a barbed wire specification will be added to the game fence to avoid a variance if required by the OCD District Office.

19.15.34.12 A Design and Construction Specifications

(1). The operator shall design and construct a recycling containment to ensure the confinement of produced water, to prevent releases and to prevent overtopping due to wave action or rainfall. (8). The operator of a recycling containment shall design the containment to prevent run-on of surface water. The containment shall be surrounded by a berm, ditch or other diversion to prevent run-on of surface water

19.15.34.12 B. Prior to constructing containment, the operator shall strip and stockpile the topsoil for use as the final cover or fill at the time of closure

19.15.34.12 C. Signs.

The operator shall post an upright sign no less than 12 inches by 24 inches with lettering not less than two inches in height in a conspicuous place on the fence surrounding the containment. The operator shall post the sign in a manner and location such that a person can easily read the legend. The sign shall provide the following information: the operator's name, the location of the site by quarter-quarter or unit letter, section, township and range, and emergency telephone numbers

19.15.34.12 D. Fencing

(1) The operator shall fence or enclose a recycling containment in a manner that deters unauthorized wildlife and human access and shall maintain the fences in good repair. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.

(2) Recycling containments shall be fenced with a four-foot fence that has at least four strands of barbed wire evenly spaced in the interval between one foot and four feet above ground level.

## Design and Construction Plan In Ground Containments

As stated in the O&M plan, the operator will ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.

#### Netting and Protection of Wildlife

The perimeter game/chain-link fence will be effective in excluding stock and most terrestrial wildlife. If requested by the surface owner, the game fence can include a fine mesh from the base to 1 foot above the ground to exclude the small reptiles (e.g. dune sagebrush lizard).

The recycling containment will be protective of wildlife, including migratory birds\_through the implementation of an Avian Protection Plan, routine inspections and the perimeter fence.

The avian protection plan includes the use of a Bird-X Mega Blaster Pro¹ as a primary hazing program for avian species. The device will be equipped with sounds suitable for the Permian Basin environment. In addition to this sonic device, staff will routinely inspect the containment for the presence of avian species and, if detected, will use a blank cartridge or shell in a handgun, starter pistol or shotgun as additional hazing. Decoys of birds of prey may be placed on the game fence and other roosts around the open water to provide additional hazing.

The O&M plan calls for the operator to inspect for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.

#### **Earthwork**

The containment will have a properly constructed foundation and interior slopes consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear. Geotextile is required under the liner when needed to reduce localized stress-strain or protuberances that otherwise may compromise the liner's integrity.

This volume provides the stamped drawings for the containment with the following design/construction specifications:

a) levee has inside grade no steeper than two horizontal feet to one vertical foot (2H: 1V).

19.15.34.12 E Netting.

The operator shall ensure that a recycling containment is screened, netted or otherwise protective of wildlife, including migratory birds. The operator shall on a monthly basis inspect for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.

9.15.34.12 A

(2) A recycling containment shall have a properly constructed foundation and interior slopes consisting of a firm, unyielding base, smooth and free of rocks, debris, sharp edges or irregularities to prevent the liner's rupture or tear. Geotextile is required under the liner when needed to reduce localized stress-strain or protuberances that otherwise may compromise the liner's integrity...

#### Design and Construction Plan In Ground Containments

- b) levee outside grade is no steeper than three horizontal feet to one vertical foot (3H: 1V)
- c) top of the levee is wide enough to install an anchor trench and provide adequate room for inspection and maintenance.
- d) The containment floor design calls for a slope toward the sump in the corner(s).

#### Liner and Drainage Geotextile Installation

The containment has a primary (upper) liner and a secondary (lower) liner with a leak detection system appropriate to the site's conditions.

The primary (upper) liner is a geomembrane liner composed of an impervious, synthetic material that is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. It is 60-mil HDPE. The secondary liner is specified in the design drawings and is 40-mil HDPE or thicker and is equivalent to 30-mil LLDPEr (in accordance with a previously approved variance) Liner compatibility meets or exceeds a subsequent relevant publication to EPA SW-846 method 9090A.

The recycling containment design has a leak detection system between the upper and lower geomembrane liners of 200-mil geonet to facilitate drainage. The leak detection system consists of a properly designed drainage and collection and removal system placed above the lower geomembrane liner in depressions and sloped to facilitate the earliest possible leak detection. The containment floor design calls for a slope toward the sump in the corner(s) of the containment, as shown in the design drawings. This slope combined with the highly transmissive geonet drainage layer provide for rapid leak detection.

The liners and drainage material will be installed consistent with the Manufacturer's specifications. In addition to any specifications of the Manufacturer, protocols for liner installation include measures to:

- i. minimizing liner seams and orient them up and down, not across, a slope of the levee.
- ii. use factory-welded seams where possible.
- iii. use field seams in geosynthetic material that are thermally seamed and prior to field seaming, overlap liners four to six inches.
- iv. minimize the number of field seams and comers and irregularly shaped areas.
- v. provide for no horizontal seams within five feet of the

#### 19.15.34.12

(2) ...The operator shall construct the containment in a levee with an inside grade no steeper than two horizontal feet to one vertical foot (2H:1V). The levee shall have an outside grade no steeper than three horizontal feet to one vertical foot (3H:1V). The top of the levee shall be wide enough to install an anchor trench and provide adequate room for inspection and maintenance.

#### 19.15.34.12 A

(3) Each recycling containment shall incorporate, at a minimum, a primary (upper) liner and a secondary (lower) liner with a leak detection system appropriate to the site's conditions.

#### 19.15.34.12 A

(4) All primary (upper) liners in a recycling containment shall be geomembrane liners composed of an impervious, synthetic material that is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. All primary liners shall be 30-mil flexible PVC, 45-mil LLDPE string reinforced or 60-mil HDPE liners. Secondary liners shall be 30-mil LLDPE string reinforced or equivalent with a hydraulic conductivity no greater than 1 x 10-9 cm/sec. Liner compatibility shall meet or exceed the EPA SW-846 method 9090A or subsequent relevant publications.

#### 19.15.34.12 A

(7) The operator of a recycling containment shall place a leak detection system between the upper and lower geomembrane liners that shall consist of 200-mil geonet or two feet of compacted soil with a saturated hydraulic conductivity of 1 x 10-5 cm/sec or greater to facilitate drainage. The leak detection system shall consist of a properly designed drainage and collection and removal system placed above the lower geomembrane liner in depressions and sloped to facilitate the earliest possible leak detection.

#### 19.15.34.12 A

(5) The operator of a recycling containment shall minimize liner seams and orient them up and down, not across, a slope of the levee. Factory welded seams shall be used where possible. The operator shall ensure field seams in geosynthetic material are thermally seamed. Prior to field seaming, the operator shall overlap liners four to six inches...

## Design and Construction Plan In Ground Containments

- slope's toe.
- vi. use qualified personnel to perform field welding and testing.
- vii. avoid excessive stress-strain on the liner
- viii. The edges of all liners are anchored in the bottom of a compacted earth-filled trench that is at least 18 inches deep

At points of discharge into the lined earthen containment the pipe configuration effectively protects the liner from excessive hydrostatic force or mechanical damage during filling.

The design shows that at any point of discharge into or suction from the recycling containment, the liner is protected from excessive hydrostatic force or mechanical damage. External discharge or suction lines do not penetrate the liner.

Pumping from the containment to hydraulic fracturing operations is the responsibility of stimulation contractors. Typically, lines are permanently placed in the containment with floats attached to prevent damage to the liner system. The containment may be equipped with permanent HDPE stinger (supported by a sacrificial liner or geotextile) for withdrawal of fluid if the owner deems necessary during operations.

Leak Detection and Fluid Removal System Installation
The leak detection system, contains the following design elements

- a. The 200-mil HyperNet Geonet drainage material between the primary and secondary liner that is sufficiently permeable to allow the transport of fluids to the observation ports (Appendix A).
- b. The containment floor is sloped towards the monitoring riser pipe to facilitate the earliest possible leak detection of the containment bottom. A pump may be placed in the observation port to provide for fluid removal.
- c. Piping will withstand chemical attack from any seepage, structural loading from stresses and disturbances from overlying water, cover materials, equipment operation or expansion or contraction (see Appendix A).

#### 19.15.34.12 A

(5) ...The operator shall minimize the number of field seams and corners and irregularly shaped areas. There shall be no horizontal seams within five feet of the slope's toe. Qualified personnel shall perform field welding and testing.

#### 19.15.34.12 A

(3) The edges of all liners shall be anchored in the bottom of a compacted earth-filled trench. The anchor trench shall be at least 18 inches deep.

#### 19.15.34.12 A

(6) At a point of discharge into or suction from the recycling containment, the operator shall insure that the liner is protected from excessive hydrostatic force or mechanical damage. External discharge or suction lines shall not penetrate the

### OPERATIONS AND MAINTENANCE PLAN

CLOSURE PLAN

#### **Overview**

The operator will operate and maintain the lined earthen containment to contain liquids and solids (blow sand and minimal precipitates from the produced water) and maintain the integrity of the liner system in a manner that prevents contamination of fresh water and protects public health and the environment as described below. The purpose of the lined earthen containment is to facilitate recycling, reuse and reclamation of produced water derived from oil and gas wells. During periods when water for E&P operations is not needed, produced water will discharge to injection wells or to a pipeline for transfer to another recycling facility. The containment will not be used for the disposal of produced water or other oilfield waste.

The operation of the containment is summarized below.

- A. Produced water generated from nearby oil and gas wells is delivered to a treatment system located as indicated in the C-147.
- B. Unless specified in the transmittal letter, after treatment, the produced water discharges into the containment.
- C. When required, produced water is removed from the containment for E&P operations. At this time, produced water will be used for drilling beneath the freshwater zones (beneath surface casing), for well stimulation (e.g. hydraulic fracturing) and other E&P uses as approved by OCD.
- D. Whenever the maximum fluid capacity of the containment is reached, treatment and discharge to the containment ceases (see Freeboard and Overtopping Plan, below).
- E. The operator will keep accurate records and shall report monthly to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148 (see attached example).
- F. The operator will maintain accurate records that identify the sources and disposition of all recycled water that shall be made available for review by the division upon request.

19.15.34.10 D Recycling containments may not be used for the disposal of produced water or other oilfield wastes.

#### 19.15.34.9 E

The operator of a recycling facility shall keep accurate records and shall report monthly to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.

#### 19.15.34.9 F

The operator of a recycling facility shall maintain accurate records that identify the sources and disposition of all recycled water that shall be made available for review by the division upon request.

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G. The containment shall be deemed to have ceased operations if less than 20% of the total fluid capacity is used every six months following the first withdrawal of produced water for use. The operator will report cessation of operations to the appropriate division district office. The appropriate division district office may grant an extension to this determination of cessation of operations not to exceed six months.

The operation of the lined earthen containment will follow the mandates listed below:

- 1. The operator will not discharge into or store any hazardous waste (as defined by 40 CFR 261 and NMAC 19.15.2.7.H.3) in the containments.
- 2. If the containment's primary liner is compromised above the fluid's surface, the operator will repair the damage or initiate replacement of the primary liner within 48 hours of discovery or seek an extension of time from the division district office.
- 3. If the primary liner is compromised below the fluid's surface, the operator will remove all fluid above the damage or leak within 48 hours of discovery, notify the division district office and repair the damage or replace the primary liner.
- 4. If any penetration of the containment liner is confirmed by sampling of fluid in the leak detection system (see Monitoring, Inspection, and Reporting Plan; below), the operator will:
  - a. Begin and maintain fluid removal from the leak detection/pump-back system,
  - b. Notify the district office within 48 hours (phone or email) of the discovery,
  - c. Identify the location of the leak, and
  - d. Repair the damage or, if necessary, replace the containment liner.
- 5. The operator will install, or maintain on site, an oil absorbent boom or other device to contain an unanticipated release and the operator will remove any visible layer of oil from the surface of the recycling containment.
- 6. The operator will report releases of fluid in a manner consistent with NMAC 19.15.29
- 7. The containment will be operated to prevent the collection of surface water run-on.

#### 19.15.34.13 C

A recycling containment shall be deemed to have ceased operations if less than 20% of the total fluid capacity is used every six months following the first withdrawal of produced water for use. The operator must report cessation of operations to the appropriate division district office. The appropriate division district office may grant an extension to this determination of cessation of operations not to exceed six months.

#### 19.15.34.13 B

- (4) If the containment's primary liner is compromised above the fluid's surface, the operator shall repair the damage or initiate replacement of the primary liner within 48 hours of discovery or seek an extension of time from the division district office.
- (5) If the primary liner is compromised below the fluid's surface, the operator shall remove all fluid above the damage or leak within 48 hours of discovery, notify the division district office and repair the damage or replace the primary liner.

#### 19.15.34.13 B

- (7) The operator shall install, or maintain on site, an oil absorbent boom or other device to contain an unanticipated release.
- (1) The operator shall remove any visible layer of oil from the surface of the recycling containment. 19.15.34.8 A
- (6) All releases from the recycling and re-use of produced water shall be handled in accordance with 19.15.29 NMAC.

- 8. The operator will maintain the containment free of miscellaneous solid waste or debris.
- 9. The operator will maintain at least three feet of freeboard for the containment and will use a free-standing staff gauge to allow easy determination of the required 3-foot of freeboard.
- 10. As described in the design/construction plan, the injection or withdrawal of fluids from the containment is accomplished through hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.
- 11. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 12. The operator will maintain the fences in good repair.

#### Monitoring, Inspection, and Reporting Plan

The operator will inspect the recycling containment and associated leak detection systems weekly while it contains fluids. The operator shall maintain a current log of such inspections and make the log available for review by the division upon request.

#### Weekly inspections consist of:

- reading and recording the fluid height of staff gauges,
- recording any evidence that the pond surface shows visible oil,
- visually inspecting the containment's exposed liners
- checking the leak detection system for any evidence of a loss of integrity of the primary liner
- inspect diversion ditches and berms around the containment to check for erosion and collection of surface water run-on.
- inspect the leak detection system for evidence of damage or malfunction and monitor for leakage.

As stated above, if a liner's integrity is compromised, or if any penetration of the liner occurs, then the operator will take appropriate action within 48 hours, based on if above or below water surface, as noted above.

#### 19.15.34.13

(6) The containment shall be operated to prevent the collection of surface water run-on.

#### 19.15.34.13 B

(2) The operator shall maintain at least three feet of freeboard at each containment.

#### 19.15.34.13 B

(3) The injection or withdrawal of fluids from the containment shall be accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.

#### 19.15.34.12 D

(1) The operator shall fence or enclose a recycling containment in a manner that deters unauthorized wildlife and human access and shall maintain the fences in good repair. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.

#### 19.15.34.13 A

The operator shall inspect the recycling containment and associated leak detection systems weekly while it contains fluids. The operator shall maintain a current log of such inspections and make the log available for review by the division upon request.

#### Monthly, the operator will:

- A. Inspect the containment for dead migratory birds and other wildlife. Within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.
- B. Report to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.
- C. Record sources and disposition of all recycled water.

The operator will maintain a log of all inspections and make the log available for the appropriate Division district office's review upon request. An example of the log is attached to this section of the permit application.

#### Freeboard and Overtopping Prevention Plan

The method of operation of the containment allows for maintaining freeboard with very few potential problems. When the capacity of the containment is reached (3-feet of freeboard), the discharge of produced water ceases and the produced water generated by nearby oil and gas wells is managed by an injection well(s).

If rising water levels suggest that 3-feet of freeboard will not be maintained, the operator will implement one or more of the following options:

- I. Cease discharging produced water to the containment.
- II.Accelerate re-use of the produced water for purposes approved by the Division.
- III. Transfer produced water from the containment to injection wells.

The reading of the staff gauge typically occurs daily when treatment operations are ongoing and weekly when discharge to the containment is not occurring.

#### 19.15.34.12 E

The operator shall on a monthly basis inspect for and, within 30 days of discovery, report the discovery of dead migratory birds or other wildlife to the appropriate wildlife agency and to the division district office in order to facilitate assessment and implementation of measures to prevent incidents from reoccurring.

#### 19.15.34.9 E

The operator of a recycling facility shall keep accurate records and shall report monthly to the division the total volume of water received for recycling, with the amount of fresh water received listed separately, and the total volume of water leaving the facility for disposition by use on form C-148.

#### 19.15.34.9 F

The operator of a recycling facility shall maintain accurate records that identify the sources and disposition of all recycled water that shall be made available for review by the division upon request.

## Protocol for Leak Detection Monitoring, Fluid Removal and Reporting

As shown in Appendix A, the leak detection system includes a monitoring system. Any fluid released from the primary liner will flow to the collection sump, where fluid level monitoring is possible at the monitoring riser pipe associated with the leak detection system.

Staff may employ a portable electronic water level meter to determine if fluid exists in the monitoring riser pipe. Obtaining accurate readings of water levels in a sloped pipe beneath a containment can be a challenge. An electrician's wire snake may be required to push the probe to the bottom of the port and the probe may be fixed in a 2-inch pipe "dry housing" to avoid false readings due to water condensation on the pipe. There are many techniques to determine the existence of water in the sumps – including low flow pumps and a simple small bailer affixed to an electrician's snake. The operator will use the method that works best for this containment.

If seepage from the containment into the leak detection system is suspected by a positive fluid level measurement, the operator will:

- 1. Re-measure fluid levels in the monitoring riser pipe on a daily basis for one week to determine the rate of seepage.
- 2. Collect a water sample from the monitoring riser pipe to confirm the seepage is produced water from the containment via electrical conductivity and chloride measurements.
- 3. Notify NMOCD of a confirmed positive detection in the system within 48 hours of sampling (initial notification).
- 4. Install a pump into the monitoring riser pipe sump to continually (manually on a daily basis or via automatic timers) remove fluids from the leak detection system into the containment until the liner is repaired or replaced.
- 5. Dispatch a liner professional to inspect the portion of the containment suspected of leakage during a "low water" monitoring event.
- 6. Provide NMOCD a second report describing the inspection and/or repair within 20 days of the initial notification.

Type text h

If the point of release is obvious from a low water inspection, the liner professional will repair the loss of integrity. If the point of release cannot be determined by the inspection, the liner professional will develop a more robust plan to identify the point(s) of release. The inspection plan and schedule will be submitted to OCD with the second report. The operator will implement the plan upon OCD approval.

## Closure Plan In Ground Containments

#### **Overview**

After operations cease, the operator will remove all fluids within 60 days and close the containment within six months from the date the operator ceases operations from the containment for use.

The operator shall substantially restore the impacted surface area to

- a. the condition that existed prior to the construction of the recycling containment or
- to a condition imposed by federal, state trust land or tribal agencies on lands managed by those agencies as these provisions govern the obligations of any operator subject to those provisions,

The surface owner will impose a closure design that conforms to their needs for the site. The operator understands that a variance will be submitted to OCD to allow for any alternative closure protocol.

## Excavation and Removal Closure Plan – Protocols and Procedures

The containment is expected to hold a small volume of solids, the majority of which will be windblown sand and dust with some mineral precipitates from the water

- 1. The operator will remove all liquids from the containment and either:
  - a. Dispose of the liquids in a division-approved facility, or
  - b. Recycle, reuse or reclaim the water for reuse in drilling and stimulation.
- 2. The operator will close the recycling containment by first removing all fluids, contents and synthetic liners and transferring these materials to a division approved facility.
- 3. After the removal of the containment contents and liners, soils beneath the containment will be tested by collection of a five-point (minimum) composite sample which includes stained or wet soils, if any, and that sample shall be analyzed for the constituents listed in Table I of 19.15.34.14.
- 4. After review of the laboratory results:
  - a. If any contaminant concentration is higher than the parameters listed in Table I, additional delineation may be required, and the operator must receive approval before proceeding with closure.

#### 19.15.34.14 A

Once the operator has ceased operations, the operator shall remove all fluids within 60 days and close the containment within six months from the date the operator ceases operations from the containment for use.

#### 19.15.34.14 E

The operator shall substantially restore the impacted surface area to the condition that existed prior to the construction of the recycling containment.

#### 19.15.34.14 G

The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment.

#### 19.15.34.14 B

The operator shall close a recycling containment by first removing all fluids, contents and synthetic liners and transferring these materials to a division approved facility.

#### 19.15.34.14 C

The operator shall test the soils beneath the containment for contamination with a five-point composite sample which includes stained or wet soils, if any, and that sample shall be analyzed for the constituents listed in Table I below.

#### 19.15.34.14 C

(1) If any contaminant concentration is higher than the parameters listed in Table I, the division may require additional delineation upon review of the results and the operator must receive approval before proceeding with closure.

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## Closure Plan In Ground Containments

- b. If all contaminant concentrations are less than or equal to the parameters listed in Table I, then the operator will proceed to
  - i. backfill with non-waste containing, uncontaminated, earthen material - Or
  - ii. undertake an alternative closure process pursuant to a variance request after approval by OCD.

#### Reclamation and Re-vegetation

- a. The operator will reclaim the containment's location to a safe and stable condition that blends with the surrounding undisturbed area.
- <u>b.</u> Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns.
- c. The disturbed area shall then be reseeded in the first favorable growing season following closure of a recycling containment.

#### Closure Documentation

Within 60 days of closure completion, the operator shall submit a closure report on form C-147, including required attachments, to document all closure activities including sampling results and the details on any backfilling, capping or covering, where applicable. The closure report shall certify that all information in the report and attachments is correct and that the operator has complied with all applicable closure requirements and conditions specified in division rules or directives.

The operator shall notify the division when reclamation and revegetation are complete. Specifically the notice will document that all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of predisturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

#### 19.15.34.14 C

(2) If all contaminant concentrations are less than or equal to the parameters listed in Table I, then the operator can proceed to backfill with non-waste containing, uncontaminated, earthen material.

#### 19.15.34.14 E

Once the operator has closed the recycling containment, the operator shall reclaim the containment's location to a safe and stable condition that blends with the surrounding undisturbed area. Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area shall then be reseeded in the first favorable growing season following closure of a recycling containment.

#### 19.15.34.14 D

Within 60 days of closure completion, the operator shall submit a closure report on form C-147, including required attachments, to document all closure activities including sampling results and the details on any backfilling, capping or covering, where applicable. The closure report shall certify that all information in the report and attachments is correct and that the operator has complied with all applicable closure requirements and conditions specified in division rules or directives.

#### 19.15.34.14 H

The operator shall notify the division when reclamation and re-vegetation are complete.

#### 19.15.34.14 F

Reclamation of all disturbed areas no longer in use shall be considered complete when all ground surface disturbing activities at the site have been completed, and a uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of predisturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds.

October 2025

## Rule 34 Registration Gissler A22 RF and Containment Section 14 T17S, R30E, Eddy County

#### Volume 1

- Transmittal Letter
- Siting Criteria Demonstration, Plates & Appendices,



Air photograph of Loco Hills area showing the density of oil and gas production pads, each of which typically contains one or more wells. The high density of oil and gas wells is not an accident and this relatively narrow trend exists between west of Artesia to near Lovington, New Mexico. It is called the Artesia-Vacuum arch or trend. This geologic arch creates a unique hydrology that is discussed in this document.

### Prepared for: Burnett Oil Company, Inc Fort Worth, Texas

#### Prepared by: R.T. Hicks Consultants, Ltd. 901 Rio Grande NW F-142

Albuquerque, New Mexico

Cascade Services LLC Midland, Texas

## R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996

September 2025

Ms. Leigh Barr EMNRD - Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505 Via E-Mail Ms. Victoria Venegas NMOCD - District 2 811 S. First St. Artesia, NM 88210 Via E-Mail

RE: Burnett Oil Company, Gissler 22A Recycling Facility and Containments In-ground Containment Registration Section 14 T17S R30E, Eddy County

Dear Ms. Barr and Ms. Venegas:

On behalf of Burnett Oil Company, R.T. Hicks Consultants and Cascade Services is pleased to submit a C-147 registration for the above-referenced project. Burnett anticipates that construction will commence shortly.

Volume 1 of the C-147 package contains:

- Transmittal Letter
- Siting Criteria Demonstration with Plates and Appendices

#### Volume 2 contains:

- The C-147 Form to register the in-ground containment
- Stamped Design Drawings with Liner Equivalency Demonstration and Avian Deterrence
- Recently Approved Plans for Design/Construction, O&M, Closure

This submission refers to the following elements that some OCD reviewers have considered variances for in-ground containments:

- 1. An equivalency demonstration written by experts for the proposed 40-mil HDPE secondary liner has been previously approved by OCD. We maintain that the language of the Rule is clear, and a variance is not required.
- 2. OCD has approved the proposed Avian Protection Plan (Bird-X Mega Blaster Pro) for other containments. Thus, the plan meets the requirement of the rule that the "otherwise protective of wildlife, including migratory birds" and a variance is not required.
- 3. Using the proposed deer fence in lieu of a 4-strand barbed wire fence is not a variance. Because feral pigs, javelina and deer are present in the area, a tall game fence is required to comply with Section 19.15.34.12 D.1 of the Rule. The specification for fencing provided in 19.15.34.12 D.2 contradicts D.1 because pigs will move beneath the lower strand of a 4-foot high barbed wire fence and deer will jump over. Thus, compliance with D.2 results in a violation of D.1. We maintain that compliance with D.1 is the critical component of the Rule and operators need not be required to submit a variance request to follow Best Management Practices and

Page 2

comply with the Rule. Nevertheless, we will attach 4 strands of barbed wire to the game fence if required by OCD.

Burnett will transmit the registration package to OCD via the OCD.Online portal. In compliance with 19.15.34.10 of the Rule, Burnett provided this package to the Bureau of Land Management, the surface owner's representative. If you have any questions or concerns regarding this permit or the attached C-147, please contact me. As always, we appreciate your work ethic and diligence.

Sincerely,

R.T. Hicks Consultants

Randall T. Hicks PG

Principal

Copy: Burnett Oil Company

## SITING CRITERIA DEMONSTRATION

#### **Distance to Groundwater**

Plates 1 & 2 and the discussion below demonstrates that groundwater (fresh water as defined by NMOCD Rules) at the location is more than 100 feet beneath the proposed Gissler A22 recycling containment.

Plate 1 is a topographic map that shows:

- 1. The project area of the Gissler A22 containment project area is identified by the blue diagonally lined polygon.
- 2. Water wells from the OSE database as a blue triangle inside a colored circle. OSE wells are often mislocated in the WATERS database as older wells are plotted in the center of the quarter, quarter, quarter, of the Section Township and Range. Additionally, the OSE database can include locations of proposed wells or borings (i.e., permit applications) that were never drilled. Depth to water data for the OSE wells do not necessarily represent static water levels and these can be misleading. Depth to water and the date of measurement are presented in the Plate 1.

No water supply wells exist within the mapped area of Plate 1. We queried the USGS database and the Hicks Consultants database in addition to the OSE. Our team has examined much of the Loco Hills area over more than two decades, and water wells are exceedingly rare. Five borings are present within the mapped area of Plate 1 and data from these borings are discussed in the next section.

Plate 2a is a topographic and geologic map that shows:

- A. The Gissler A22 containment area identified by the blue striped rectangle with a label listing the surface elevation of 3695.
- B. Three water wells measured by the USGS, the date of the measurement and the calculated elevation of the groundwater elevation surface.
- C. Four MISC water wells measured by professionals and documented in published reports or by staff of Hicks Consultants.
- D. Groundwater elevation contours (blue lines) show an area around Loco Hills that includes the Gissler A22 project area with no groundwater elevation data. As discussed in the next section, we conclude that the groundwater elevation of all underlying aquifers (Alluvium, Chinle Formation, Rustler Formation) is beneath the base of these geologic units in this area.
- E. Quaternary Older Alluvium (Qoa), on the west side of the Plate, are alluvial sediments associated with erosion of the Ogallala Formation overlain by a thin veneer of sand, surround the project area.

Plate 2b is a 100,000 scale aerial photograph that shows the distribution of water supply wells (MISC and USGS database) as well as the obvious locations of oil and gas well pads. The next section discusses this Plate.

#### **Hydrogeology and Groundwater Data**

All the five drillers logs (See *Appendix USGS Data and Well Logs*) share the following characteristics:

- Total depth drilled and logged is 100-102 feet below surface
- Drillers did not observe any water saturation
- Stiff red clay (Chinle Formation) is present between 70-90 feet except RA-3442 (west), which is sand plus clay within this horizon
- Sediments typical of the Older Alluvium overlie the clay horizon

Plate 2b is a recent air photos that shows USGS and MISC wells at a 100,000 scale. Oil and gas wells are obvious in this image by the distribution of production pads. East to the Vacuum Oil Field (northwest of Hobbs and north of Arkansas Junction) and west to the Atoka field (south of Artesia), a similar trend of closely spaced oil and gas wells defines the axis of the Artesia-Vacuum Arch¹ (also called the Artesia Vacuum Trend). It is no accident that oil and gas deposits exist within the axis of the Trend/Arch. This structural feature also affects groundwater in the opposite way. While oil and gas fluids exist in abundance in the structurally high area of the Arch, the aquifers exist only north and south of the arch because the permeable strata that host groundwater lie above the potentiometric surface of groundwater in these aquifers. Hence, the alluvium is dry and is the Santa Rosa Sandstone of the Chinle Formation and the underlying Rustler.

From these data we conclude:

- A. The data from the borings convincingly demonstrate that groundwater is more than 100 feet below ground surface at the Gissler A22 project area
- B. The potentiometric surface contours in Plate 2a (drawn by Hicks Consultants) are reliable.
- C. The project area meets the groundwater setback requirement of Rule 3.

#### Distance to Municipal Boundaries and Fresh Water Fields

Plate 3 demonstrates that the Gissler A22 containment is not within incorporated municipal boundaries or within defined municipal fresh water well fields covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- The closest municipality is Loco Hills, NM approximately 1.25 miles southwest
- There are no public water supply wells within the area of Plate 3.

#### **Distance to Subsurface Mines**

Plate 4 and our knowledge of the Gissler A22 containment area demonstrate that the nearest mines are caliche pits. This location is not within an area overlying a subsurface mine.

- The closest mapped caliche pit is 1/4 mile north.
- There are no subsurface mines in Plate 4

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<sup>&</sup>lt;sup>1</sup> See page 52 of

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#### **Distance to High or Critical Karst Areas**

Plate 5 shows the Gissler A22 site is within a mapped as Not Karst with respect to the 2025 BLM Karst map.

• The nearest high karst area is located approximately 5 miles west of the proposed containment.

#### Distance to 100-Year Floodplain

Plate 6 demonstrates that the Gissler A22 containment is within Zone D as designated by the Federal Emergency Management Agency with respect to the Flood Insurance Rate 100-Year Floodplain.

- FEMA describes the location as an area with possible but undetermined flood hazards. No flood hazard analysis has been conducted.
- The closest FEMA-mapped flood zones is about 1 1/4 miles south of the project area.

#### **Distance to Surface Water**

Plate 7 shows that the containment is not within 300 feet of a surface water body or a significant watercourse.

- Plate 7 shows a Lake/Pond about 2.3 miles south-southeast of the project area:
- The closest mapped watercourse is an unnamed draw about 2 miles east.

#### Distance to Permanent Residence or Structures

Plate 8 demonstrates that the location is not within 1000 feet of an occupied permanent residence, school, hospital, institution, church, or other structure in existence at the time of initial application.

- The nearest structures are lease roads, production pads, and pipelines.
- All the surface within Plate 8 is managed by the BLM for the US Government.

#### **Distance to Non-Public Water Supply**

Plates 1 and 7 demonstrates that the Gissler A22containment site is not within 500 horizontal feet of a spring or fresh water well used for domestic or stock watering purposes.

- Plate 1 shows the locations of the nearest water wells, active or plugged.
- There are no domestic water wells located within 1,000 feet of the project.
- No springs were identified within the mapping area (see Plate 8).

#### **Distance to Wetlands**

Plate 9 demonstrates the Gissler A22 location is not within 500 feet of any mapped wetlands identified in the USA Wetlands database. The nearest mapped wetland in this database is

- A "marsh/bog" wetland is the existing fresh water frac pond
- Other recently constructed fresh water frac ponds are also mapped as wetlands.
- As explained below, the mapped wetlands are not wetlands.

Errant mapping is typical of the USA Wetlands database in New Mexico. The US Fish and Wildlife Service who conducts the wetlands inventory, employs areal imagery: ground surveys are not routine. In the FAQ section of the inventory is this:

Why is there a difference between mapped wetlands and ground conditions?

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It is likely the base imagery date is different than the date of the imagery used for photointerpretation, and interim changes in the landscape since the wetland was mapped may result in mismatch when comparing newer imagery with ground conditions. The wetlands mapper defaults to ESRI base imagery. More information can be found on ESRI's imagery metadata webpage.

Imagery can also be viewed in the ESRI map viewer to determine image dates for specific areas of interest.

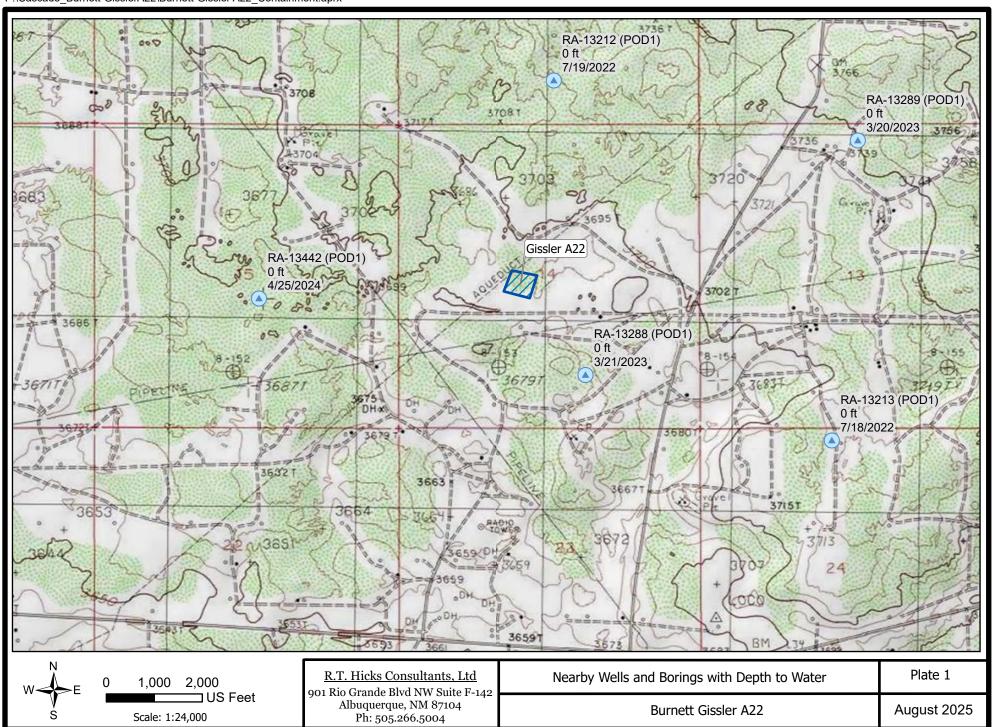
In addition, not all wetlands are wet throughout the year. Some wetlands may appear dry during certain times of the year while still supporting hydric soils and wetland plants characteristic of wetland areas.

Many wetlands in New Mexico mapped by the USFW Service database do not meet the NM OCD definition of a wetland. The Hicks Consultants team has more than 100 years of combined field experience in Eddy, Lea, and Chaves Counties and have rarely seen a mapped wetland with vegetation adapted for saturated soil conditions.

"Wetlands" means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions in New Mexico. This definition does not include constructed wetlands used for wastewater treatment purposes.

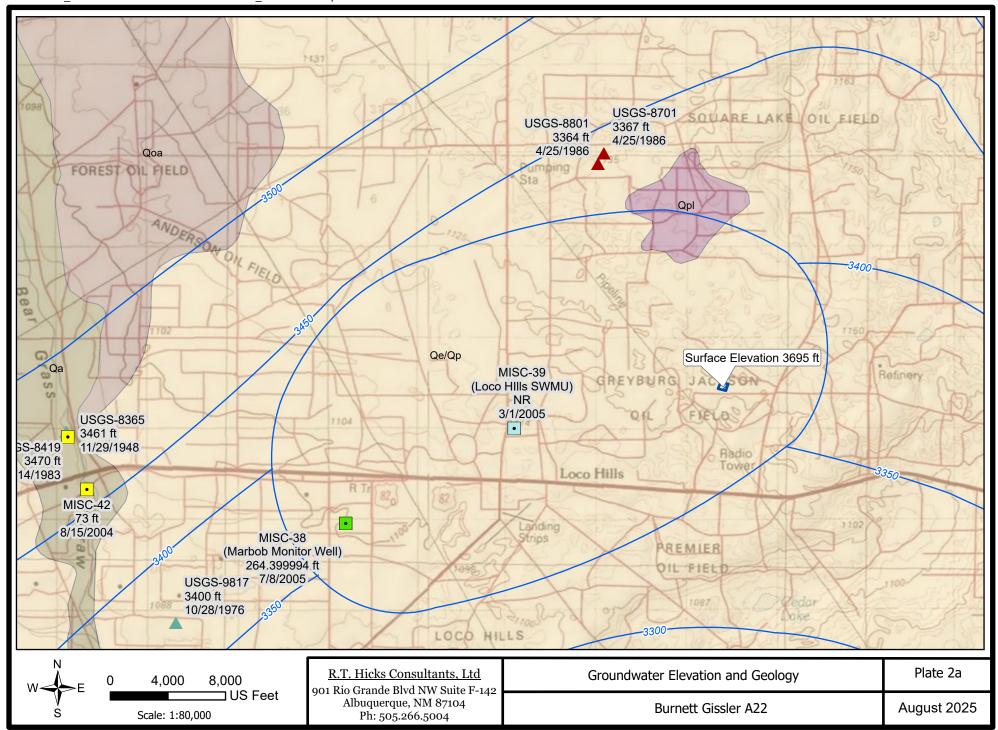
SITING CRITERIA DEMONSTRATION PLATES

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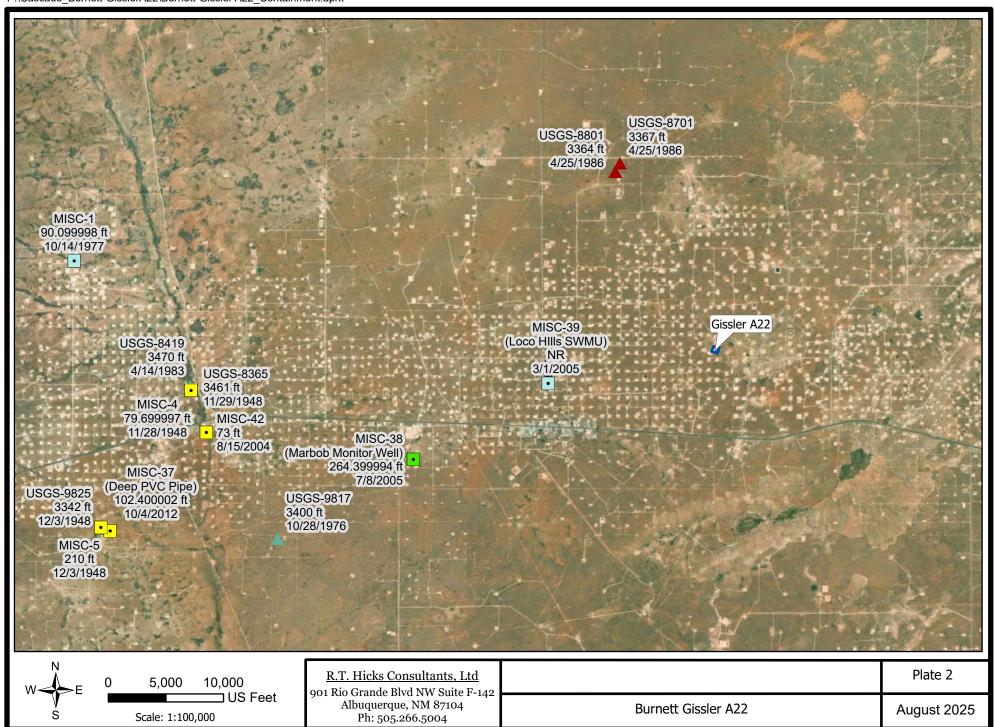


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USGS	Gauging Station (GW Elev, Date)		
<b>A</b>	Santa Rosa		
<b>A</b>	San Andres Limestone		
	Nater Wells (GW Elev, Date)		
•	No Data		
•	<= 150		
•	151 - 350		
•	351 - 500		
•	> 500		
NM_G			
	Qa, Quaternary Alluvium,Qa, Quaternary Alluvium		
	Qe/Qp, Quaternary-Eolian Piedmont Deposits		
	Qoa, Quaternary-Older Alluvial Deposits,Qoa, Quaternary-		
	Qpl, Quaternary-Lacustrine and Playa Deposits,Qpl, Quate	ernary-Lacustrine and Playa Deposits	
	R.T. Hicks Consultants, Ltd		
	901 Rio Grande Blvd NW Suite F-142		
	Albuquerque, NM 87104 Ph: 505.266.5004	Burnett Gissler A22	August 2025

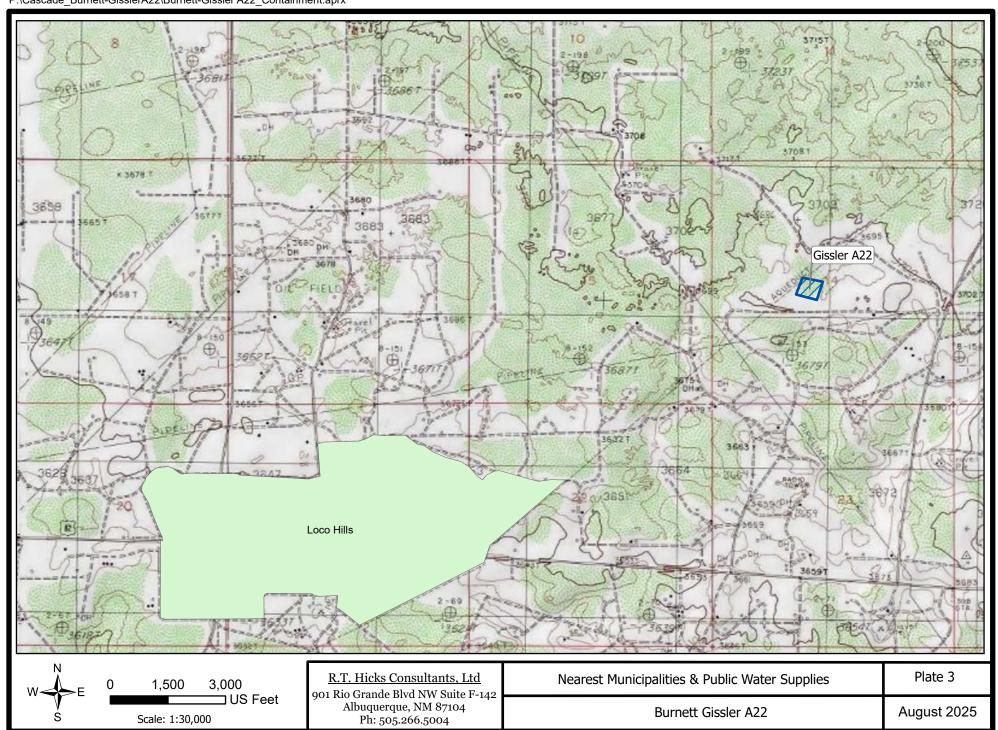
P:\Cascade\_Burnett-GisslerA22\Burnett-Gissler A22\_Containment.aprx



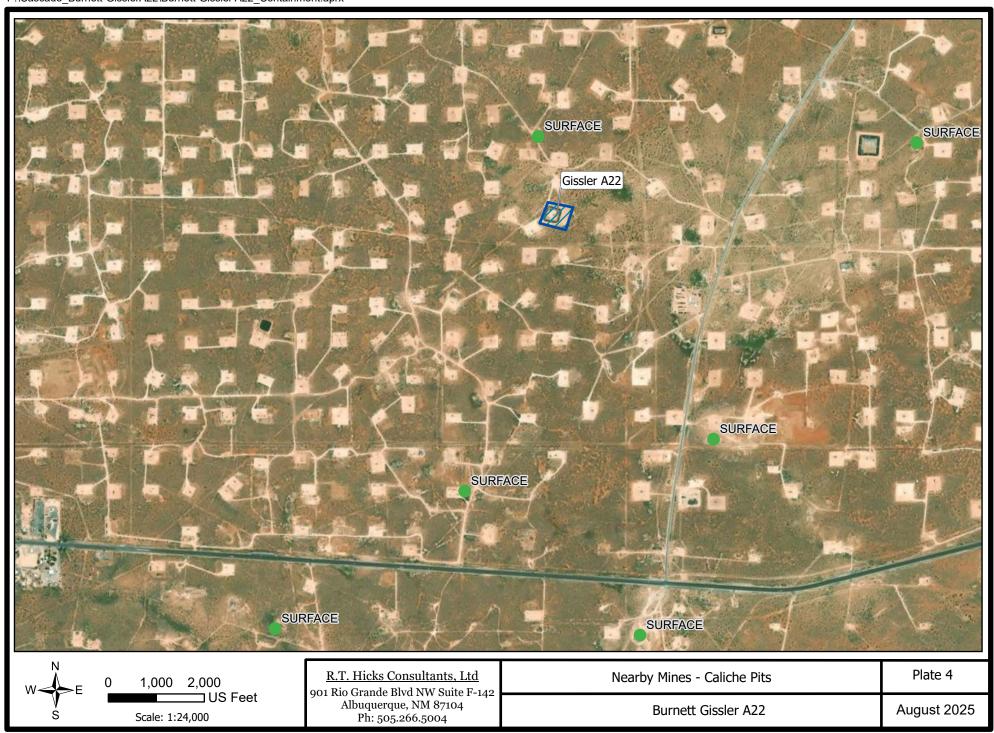
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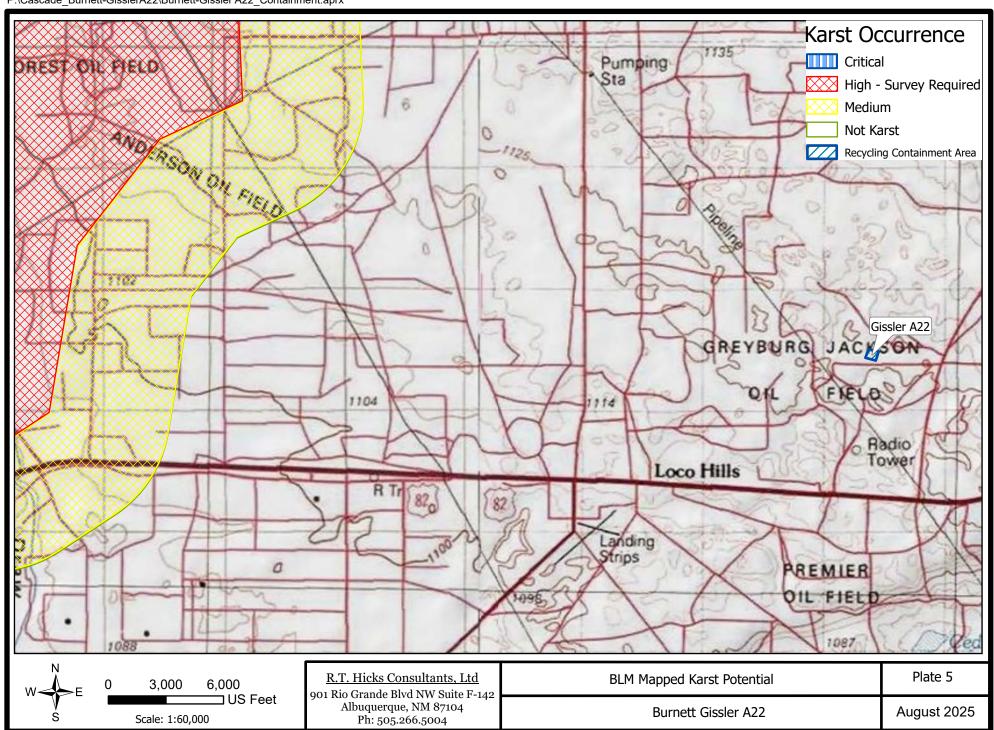
P:\Cascade\_Burnett-GisslerA22\Burnett-Gissler A22\_Containment.aprx



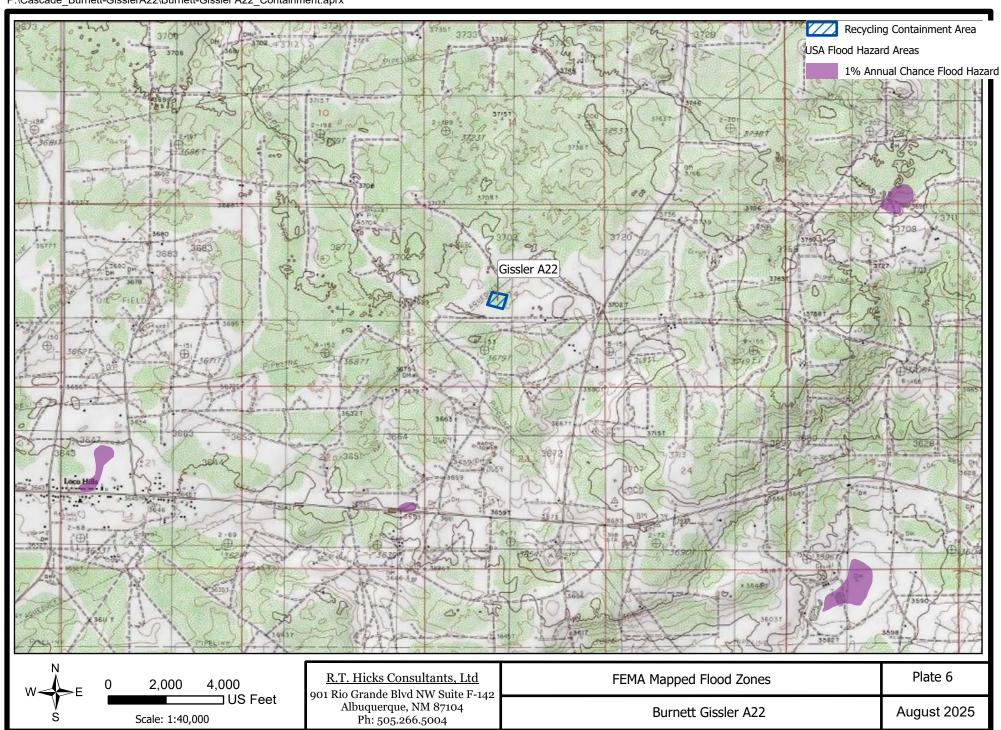
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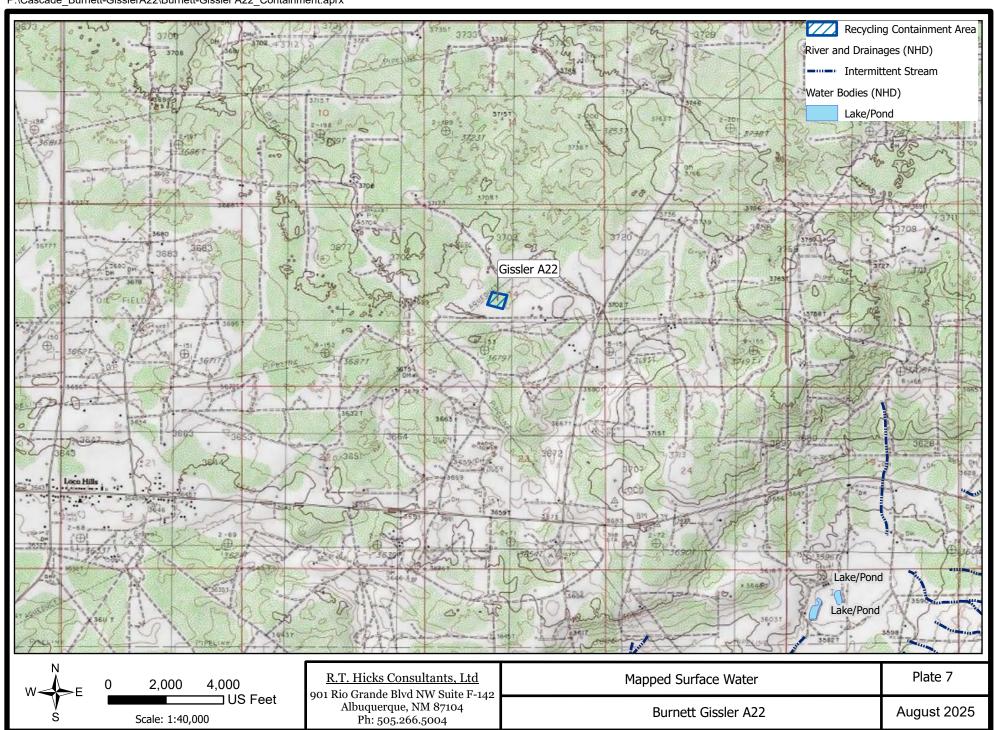
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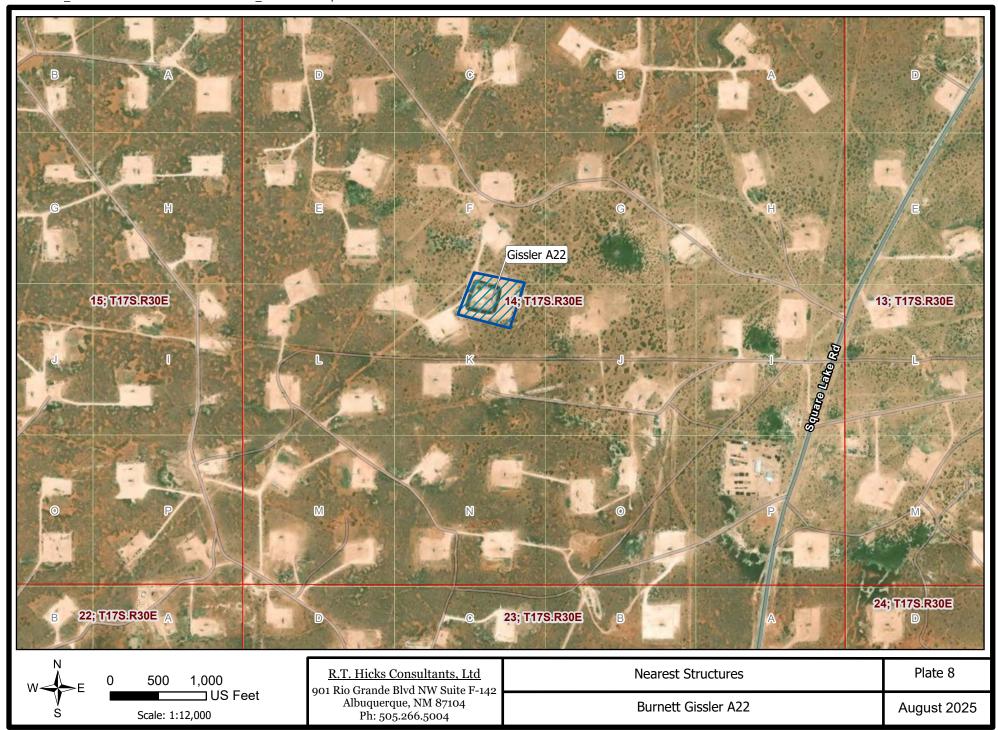
P:\Cascade\_Burnett-GisslerA22\Burnett-Gissler A22\_Containment.aprx



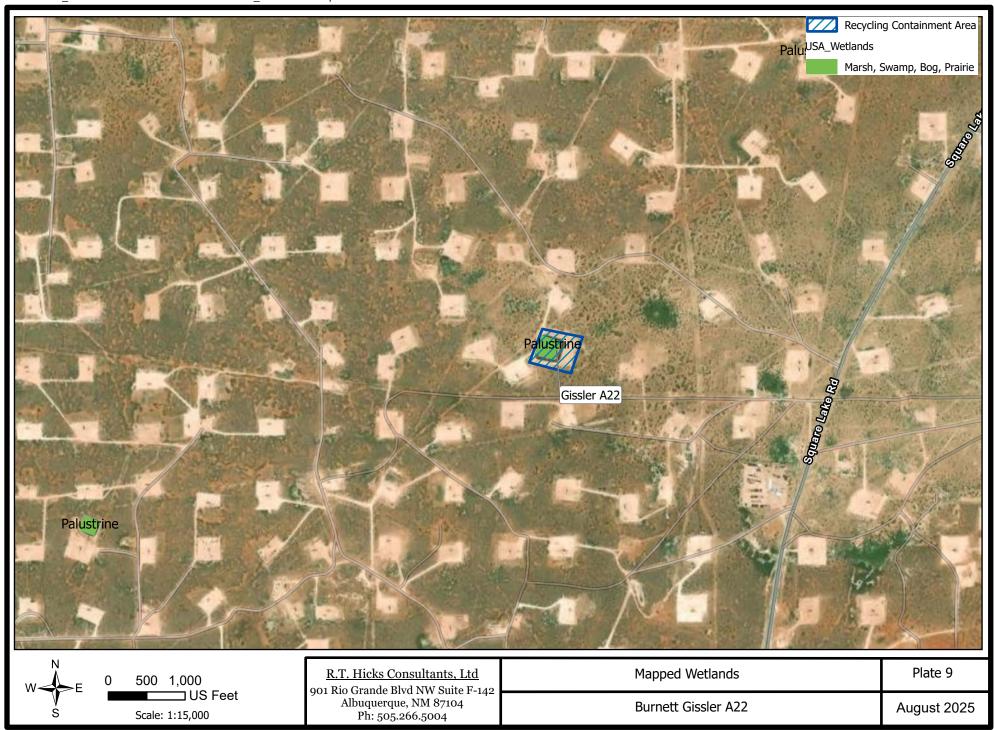
P:\Cascade\_Burnett-GisslerA22\Burnett-Gissler A22\_Containment.aprx



P:\Cascade\_Burnett-GisslerA22\Burnett-Gissler A22\_Containment.aprx



P:\Cascade\_Burnett-GisslerA22\Burnett-Gissler A22\_Containment.aprx



## APPENDIX WELL LOGS & USGS DATA



## WELL RECORD & LOG

#### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

Z	OSE POD NO. (W POD1 (TW-1)		.)		WELL TAG N/A	ID NO.			OSE FILE NO(S RA-13288	5).				
OCATIO	WELL OWNER N Burnett Oil Co							- 1	PHONE (OPTIC 817-332-510					
WELL L	WELL OWNER M 87 Square Lak		ADDRESS						CITY Loco Hills			STATE NM	88255	ZIP
1. GENERAL AND WELL LOCATION	District Total Section (1975)	LON	DESTRUCTION TO THE PROPERTY OF		MINUTE 49 56 SS AND CO	2	7.14 N 5.67 W	v	* ACCURACY * DATUM REQ (SECTION, TOV	UIRED: WGS	8 84			
	LICENSE NO. 1249		NAME OF LICENSED	DRILLER	ckie D. A	tkins		_		NAME OF S			OMPANY Associates, I	nc.
	DRILLING STAR 03/21/202		DRILLING ENDED 03/21/2023	DEPTH OF COM Temporary			BORE H		E DEPTH (FT) 101	DEPTH WA	ATER FIRS	T ENCOU	JNTERED (FT)	8
z	COMPLETED WI	ELL IS:	ARTESIAN	✓ DRY HOLE	☐ SF	IALLOW (UN	CONFINED)	9		WATER LEVI LETED WEL		'A	DATE STATIC	
ATIO	DRILLING FLUII	);	☐ AIR	MUD	AI	DDITIVES – SI	PECIFY:							
ORM	DRILLING METE	ROTARY HAM!	MER CABLE	TOOL 7	OTHER - SE	PECIFY:	Н	ollow Stem A	Auger	CHECK INSTAL	HERE IF	PITLESS ADA	PTER IS	
CASING INFORMATION	DEPTH (feet bgl)  FROM TO DIAM (inches)			CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)			CO	NNI TY	SING ECTION (PE ng diameter)	CASI INSIDE I (inch	DIAM.	THI	NG WALL CKNESS nches)	SLOT SIZE (inches)
DRILLING & CA	0	101	6.25"	Se	oil Borning	g								( <del>1 - 1</del> )
2. DRILL				5										
=	DEPTH (fee	t bgl)	BORE HOLE DIAM. (inches)			AR SEAL M			(100)		OUNT		METHO PLACEN	
MATERIA	FROM	10				N/A								
3. ANNULAR MATERIAL										OSE	OTTAI	72	023 <del>mj. L</del> i	37
	OSE INTERNA	L USE	255									& LOG (	Version 01/2	8/2022)
	EATION 175	13	288	234	PC	DD NO.	1	T <sub>v</sub>	VELL TAG ID		381-	7	PAGE	1 OF 2

	DEPTH (	feet bgl)	THICKNESS (feet)	INCLUDE	WATE	D TYPE OF M. ER-BEARING C	CAVITIES O	R FRAC	TURE ZONES	3	WA' BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING
				(Att	acii sup	premental succ	is to fully d	scribe a	ii uiiis)	_		10.7007	ZONES (gpm)
	0	4	4	Sand, fir	ne-grain	ed, poorly grade	ed, unconsoli	dated, Re	ddish Brown		Y	✓ N	)
	4	19	15	Sand, fine-grai	ned, poo	orly graded, with	n sub angular	gravel 0	.25" Reddish E	Brown	Y	✓ N	
	19	80	61	Sand, fine-grai	ned, poo	orly graded, with	sub angular	gravel 0	.25" Reddish E	Brown	Y	✓N	
	80	101	21	Clay	y, Stiff,	with medium/fir	ne grained sa	nd, Brow	nish Red		Y	√N	
											Y	N	
3											Y	N	
WE											Y	N	
OF											Y	N	
507											Y	N	
:IC:											Y	N	
100											Y	N	
GEO											Y	N	
RO											Y	N	
4. HYDROGEOLOGIC LOG OF WELL											Y	N	
4											Y	N	
											Y	N	
											Y	N	
											Y	N	
											Y	N	
											Y	N	
											Y	N	
			STIMATE YIELI				10.70.5				L ESTIN	MATED (gpm);	0.00
	PUM		AIR LIFT	BAILER		THER – SPECII				0.04/0.0000		- 349/00/01	AMESTER A.V.
NOIS	WELL TES		RESULTS - ATT T TIME, END TI										
5. TEST; RIG SUPERVIS	MISCELLA	NEOUS IN	b	emoved tempo elow ground su ecord.	orary wo	ell material fro then placed hy	om soil bori drated bent	ng, back onite fro	om 10 feet to	ground	l surfac	e. See att	epth to 10 feet ached plugging
EST	PRINT NAM	ME(S) OF D	RILL RIG SUPE	RVISOR(S) TH	AT PRO	VIDED ONSIT	E SUPERVI	SION O	F WELL CON	STRUC	TION O	THER TH	IAN LICENSEE:
5. T	Shane Eldri			KVISOK(S) III	II I KO	VIDED ONON	L BOT LICT.	0.01, 0.	WEED CON	orkoc	110.1.0		
NTURE	CORRECT	RECORD C	HEREBY CERTI OF THE ABOVE I OLDER WITHIN	DESCRIBED H	OLE AN	ND THAT HE	OR SHE WIL	L FILE					
6. SIGNATURE	Jack A	tkins			Ja	ckie D. Atkins	i .				04/0	7/2023	
9		SIGNAT	TURE OF DRILL	ER / PRINT S	IGNEE	NAME						DATE	
FOI	R OSE INTER	NAL USE							WR-20 WFI	LL REC	ORD &	LOG (Ve	rsion 01/28/2022
_	ENO. KY		788			POD NO.	l		TRN NO.		381		- I ad avec
LO	CATION \		0E.14	234	1	37		WELL	TAG ID NO.	M	A		PAGE 2 OF 2



	OSE POD NO. (V		.)		WELL TAG ID NO	%)		OSE FILE NO(	S).			
ON	POD 1 (TW-	1)			N/A			RA-13442				
E	WELL OWNER	NAME(S)						PHONE (OPTIO	ONAL)			
GENERAL AND WELL LOCATION	Spur Energy	Partner	s LLC					2				
3	WELL OWNER	MAIL INC	ADDRESS					CITY		STATE		ZIP
EL1	919 Miliam S							Houston			7002	
<b>≥</b>	717 Minum C	71 DIC 2	.,,,					Trouston		****		
2	WELL		DE	GREES	MINUTES	SECOND	S					
CA	LOCATION	1.4	TITUDE	32	50	0.28	N	* ACCURACY	REQUIRED: ONE TENT	H OF A SECON	D	
RA]	(FROM GPS)	LA	HIODE	103	57	32.68	570	* DATUM REG	QUIRED: WGS 84			
NE		LO	NGITUDE	103		32.00	* **					
GE	DESCRIPTION	RELATIN	G WELL LOCATION TO	STREET ADDR	ESS AND COMMO	NLANDMAR	KS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WHI	ERE AVAILABI	E	
-:	NW NW SE	Sec. 15	T17S R30R, NMP	M								
_	LICENSE NO.		NAME OF LICENSED	DDILLED					NAME OF WELL DRI	LLING COMPA	NV	
	1249		NAME OF LICENSED		Jackie D. Atkins				l .	ineering Asso		nc.
	DRILLING STA		DRILLING ENDED		MPLETED WELL (F	7.1		LE DEPTH (FT) ±102	DEPTH WATER FIRS	N/A	(ED (FT)	
	04/25/20	124	04/25/2024	1 empor	ary Well Mater	iai		±102		IN/A		
				[] pruus					WATER LEVEL PLETED WELL N	A .		MEASURED
Z	COMPLETED V	VELL IS:	ARTESIAN	✓ DRY HOL	E   SHALLO	W (UNCONF	INED)	(FT)	PLETED WELL N/	A	05/07/	2024
101	DRILLING FLU	ID:	AIR	☐ MUD	ADDITIV	/ES – SPECIF	Y:					
MA.	DDILLING MES	Tuon. F	ROTARY HAMN	ICD CADI	LE TOOL 🗸 OTH	IED SDECIE	v. 1	Hollow Stem	Auger CHECK	HERE IF PITLE	SS ADAI	TER IS
DRILLING & CASING INFORMATION	DRILLING MET	HOD: [_	KOTAKT   HAMIN	AER [ CABI	LE TOOL [1] OTH	IEK – SPECIF	55 3	Tollow Stelli	INSTAL	LED		
N.	DEPTH (feet bgl) BORE HOLE CASING MATERIAL AND/OR CASING					ASING	CASING	CASING V	VALL	SLOT		
5	FROM	TO	DIAM		GRADE			NECTION	INSIDE DIAM.	THICKN	ESS	SIZE
SIS			(inches)		each casing string sections of screen	Section 1997		TYPE bling diameter)	(inches)	(inches	(3)	(inches)
CA	0	102	±6.25	note:	Soil Boring	<del></del>	add coup			445		- 12
જુ						-						
Ž	<b></b>								DOE OIL WA	113 2024	puriture.	d
										THE WASHINGTON	- Z-1Q	+
7												
	00.00.000.000.000	97411 0000	+	-	work output and the second		26000119115	W. Salak P. S.			000 1.7 (11) 1000	*********
	DEPTH (fe	eet bgl)	BORE HOLE	23787	ST ANNULAR S				AMOUNT		METHO	
3	FROM	TO	DIAM. (inches)	GRA	VEL PACK SIZE	E-RANGE E	Y INT	ERVAL	(cubic feet)	P	LACEN	MENI
ER						N/A						
I A												
Σ.												
3							_					
5				-								
ANNULAR MATERIAL												
6.												
FOR	OSE INTERN	AI IISE						WR-2	0 WELL RECORD	& LOG (Versi	on 01/2	8/2022)
	ENO. RIA -		42		POD N	o. <b>\</b>		TRN				
_				1	. 52 10		1		1 5000		PAGE	LOF 2
LOC	CATION 175.30€.15 114 WELL TAG ID NO. NA PAGE 1 OF 2											

	DEPTH (	feet bgl)			. OD 431	D TUBE OF L	ATERIAL E	NOOLDI	TERER		52965754	Т	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUD	E WATE	D TYPE OF M R-BEARING plemental she	CAVITIES O	R FRAC	TURE ZONE	s	WATER BEARING? (YES / NO)		YIELD FOR WATER- BEARING ZONES (gpm)
	0	9	9	S	and, med	ium/fine graine	ed, with off-w	hite calic	he, dry		Y ✓N	1	
	9	59	50	S	and, med	ium/fine grain	ed, poorly gra	de, Light	brown		Y ✓N		
	59	79	20	Sar	nd, mediu	ım/fine grained	l, poorly grad	e, Reddis	h Brown		Y ✓N		
	79	102	23	Sand, m	edium/fi	ne grained, poo	orly grade, wi	th clay Re	eddish Brown		y ✓N	1	
											Y N		
T											Y N		
4. HYDROGEOLOGIC LOG OF WELL											Y N	1	
OF											Y N	ı	
00											Y N	1	
)ici											Y N	ı	
07											Y N	1	
GEO											Y N	1	
RO											Y N	ı	
HXI											Y N	1	
4											Y N	1	
											Y N	I	
											Y N	1	
											Y N	ı	
											Y N	1	
											Y N	1	
											Y N	1	
	METHOD U	SED TO ES	TIMATE YIELI	OF WATER-F	BEARING	G STRATA:					AL ESTIMATEI		
	PUM	P \Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{	IR LIFT	BAILER	Поп	HER – SPECI	FY:			WEI	LL YIELD (gpm	1):	0.00
ISION	WELL TES		RESULTS - ATT T TIME, END TI										
S. TEST; RIG SUPERVIS	MISCELLA	NEOUS INF	FORMATION: T	emporary well elow ground s	l materia urface(b	l removed ar gs), then hyd	d soil borin rated bentor	g backfi nite chip	s ten feet bg	s to su	tings from total rface.		
EST	PRINT NAM	ME(S) OF D	RILL RIG SUPE	RVISOR(S) TH	AT PRO	VIDED ONSI'	TE SUPERVI	SION OF	WELL CON	STRU	CTION OTHER	TH	AN LICENSEE:
5.1	Shane Eldri	51.6		Nato									
6. SIGNATURE	CORRECT I	RECORD O	HEREBY CERTI F THE ABOVE I LDER WITHIN	DESCRIBED H	OLE AN	D THAT HE	OR SHE WIL	L FILE 7					
SIG		Atkins ay 13, 2024			Jac	kie D. Atkin	S				05/10/2024	1	
٠		SIGNAT	URE OF DRILL	ER / PRINT S	SIGNEE	NAME					DATI	Е	*
FO	R OSE INTER	NAL USE							WR-20 WF	LL RF	CORD & LOG (	Ver	sion 01/28/2022)
	ENO.RA-	1344	2			POD NO.	١		TRN NO.			. 01	
LO	CATION [7			14				WELL	TAG ID NO.	- T-975 -			PAGE 2 OF 2





	OSE POD NO.	(WELL NO.	)		WELL TAG ID NO.	Si		OSE FILE		S).				
IOI	POD 1					PHONE (		ONIAT)						
OCA7	WELL OWNER Burnett Oil							PHONE	OPIR	JNAL)				
VELL L	WELL OWNER 87 Square L		ADDRESS Loco Hills, NM					CITY Loco Hi	ills			STAT	8825	ZIP 5
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS	)	TITUDE	32 103	MINUTES 50 56		.93 N	23,700,700,000		REQUIRED:		TH OF	A SECOND	
1. GENE	DESCRIPTIO	N RELATIN	G WELL LOCATION T T17S R30E, NMP	O STREET ADD	(2).5:			SS (SECTION	N, TO	WNSHJIP, RA	ANGE) WH	ERE A	VAILABLE	
	LICENSE NO.	9	NAME OF LICENSEI		Jackie D. Atkins	01				PRINCE OF THE PR			COMPANY ng Associate	es, Inc.
	DRILLING ST 7/19/2		DRILLING ENDED 7/19/2022	DEPTH OF C	OMPLETED WELL (F n/a	T)	F19464401000000000	LE DEPTH (	(FT)	DEPTH W	ATER FIRS		OUNTERED /A	(FT)
N	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HO	LE SHALLO	W (UNC	ONFINED)		COM	WATER LEV PLETED WEI		/A		TIC MEASUREI 22, 8/2/2022
ATIC	DRILLING FL	UID:	_ AIR	☐ MUD	ADDITIV	ES – SPI	CIFY:							
ORM	DRILLING MI	ETHOD:	ROTARY HAM	IMER CAE	BLE TOOL 7 OTH	ER – SPI	CIFY: I	Hollow St	em A	Auger	INSTAL	LED	IF PITLESS A	DAPTER IS
2. DRILLING & CASING INFORMATION	DEPTH (	(include each casing string, and TYPE				ECTION INSIDE DIAM.			.05005-57	SING WAL HICKNESS (inches)				
CAS	0	101	±6.5	note	Boring-HSA		(add coup	oling diamete	er)	-				-
NG 8														
П														
DR.									-			_		
, a			1											
	Į.													
				-					_					_
1723	DEPTH (	feet bgl)	BORE HOLE		IST ANNULAR SI	EAL M.	ATERIAL A	AND			OUNT			HOD OF
TERIAL	FROM	то	DIAM. (inches)	GRA	AVEL PACK SIZE	-RANG	E BY INTI	ERVAL		(cul	bic feet)		PLAG	CEMENT
IR MAT														
ANNULAR MATERIAL														
3. A														
FOR	OSE INTERI	NAL USE						V	VR-2	0 WELL R	ECORD &	& LO	G (Version (	01/28/2022)
	ENO. RA	-132			POD NO	Э.	1	Т	RN I	NO. 7	292	71	100	
LOC	CATION (	75.3	OE. 11.1.	3.4				WELL TA	AG I	D NO.	_		PA	GE 1 OF 2

1		DEPTH (f	eet bgl)	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MA ER-BEARING CA oplemental sheets	VITIES O	R FRAC	TURE ZONES	s	WAT BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
100   12   14   15   15   15   15   16   16   16   16		0	7	7	Sand, Fi	ne-grained, poorly	y graded, R	eddish B	rown		Y	✓ N	
1		7	30	23	Sand, Ve	ry-Fine-grained, p	oorly grad	ed, Tan I	Brown		Y	✓ N	
Section   Post   Post		30	55	25	Sand, Fi	ne-grained, poorly	y graded, R	eddish B	rown		Y	√ N	
So   101   12   Clsy, Highly Plastic, with fine grained sand, Brown, damp   Y		55	69	14	Sano	d, Fine-grained, p	oorly grade	d, Brow	n		Y	✓N	
Note		69	89	20	Sand, Fine-gra	ained, poorly grad	led, with gr	avel (0.2	5") Brown		Y	√ N	
WELL TEST TEST TEST TEST TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING FERIOD.  WELL TEST TEST TESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING FERIOD.  WISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.  PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt  THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  SIGNATURE OF DRILLER / PRINT SIGNEE NAME  DATE  FOR OSE INTERNAL USE  WR-20 WELL RECORD & LOG (Version 01/28/2022)  FILE NO. RA-13217  POD NO. TRN NO. 72927	Ţ	89	101	12	Clay, Highly	y Plastic, with fine	e grained sa	nd, Brov	vn, damp		Y	✓ N	
WELL TEST TEST TEST TEST TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING FERIOD.  WELL TEST TEST TESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING FERIOD.  WISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.  PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt  THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  SIGNATURE OF DRILLER / PRINT SIGNEE NAME  DATE  FOR OSE INTERNAL USE  WR-20 WELL RECORD & LOG (Version 01/28/2022)  FILE NO. RA-13217  POD NO. TRN NO. 72927	WEI										Y	N	
WELL TEST TEST TEST TEST TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING FERIOD.  WELL TEST TEST TESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING FERIOD.  WISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.  PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt  THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  SIGNATURE OF DRILLER / PRINT SIGNEE NAME  DATE  FOR OSE INTERNAL USE  WR-20 WELL RECORD & LOG (Version 01/28/2022)  FILE NO. RA-13217  POD NO. TRN NO. 72927	OF										Y	N	
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METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:    DTAL ESTIMATED   WELL YIELD (gpm): 0.00											Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:   DY N											Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:    DITAL ESTIMATED   WELL YIELD (gpm): 0.00											Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:    DUMP											Y	N	
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SIGNATURE OF DRILLER / PRINT SIGNEE NAME   DATE	TURE	CORRECT I	RECORD O	F THE ABOVE I	DESCRIBED HOLE AN	ID THAT HE OR	SHE WIL	L FILE	THIS WELL F	ECORI	D WITH	THE STA	ATE ENGINEER
SIGNATURE OF DRILLER / PRINT SIGNEE NAME   DATE	SIGN	Jack At	kins		Jac	ckie D. Atkins					8/4/	2022	
FILE NO. RA - 13217 POD NO. \ TRN NO. 729271	_	_	SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME			-			DATE	
FILE NO. RA - 13217 POD NO. \ TRN NO. 729271	FO	R OSE INTER	NAL USE						WR-20 WE	LL REC	ORD &	LOG (Ver	sion 01/28/2022)
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	LO				3.4			WELL	TAG ID NO.		_		PAGE 2 OF 2



7	OSE POD NO. (W POD1 (TW-1)		.)		WELL TAG ID NO. N/A	0		OSE FILE NO(S	S).			
IO					IV/A			APPENIATEDERS	*****			
GENERAL AND WELL LOCATION	WELL OWNER N Burnett Oil Co							817-332-510				
27	WELL OWNER M	IAILING	ADDRESS					CITY		ST	ATE	ZIP
VEL	87 Square Lal	e Rd.						Loco Hills		NN	M 88255	
9	WELL	1	DI	EGREES	MINUTES	SECONE	os					
LAJ	LOCATION	LA	TITUDE	32	50	27.5	6 N	* ACCURACY	REQUIRED: 0	ONE TENTH O	F A SECOND	
ERA	(FROM GPS)	LO	NGITUDE	103	55	29.7	4 W	* DATUM REC	QUIRED: WGS	84		
GEN	DESCRIPTION I	RELATIN	G WELL LOCATION TO	STREET ADDI	RESS AND COMMON	LANDMA	RKS – PLS	SS (SECTION, TO	WNSHJIP, RAI	NGE) WHERE	AVAILABLE	
ä	NW NW NE	Sec. 13	T17S R30E, NMP	M								
	LICENSE NO.		NAME OF LICENSED	DRILLER					NAME OF V	VELL DRILLIN	NG COMPANY	
	1249				Jackie D. Atkins				Atl	kins Enginee	ering Associates,	Inc.
	DRILLING STAF		DRILLING ENDED		MPLETED WELL (F	- 25		LE DEPTH (FT)	DEPTH WA		NCOUNTERED (FT	)
	03/20/23	3	03/20/23	Temporar	y Well Material	-101	-	±101			N/A	
,	COMPLETED W	ELL IS:	ARTESIAN	DRY HOL	LE SHALLO	W (UNCON	FINED)		WATER LEVE PLETED WELI		DATE STATIC 03/27	
DRILLING & CASING INFORMATION	DRILLING FLUI	D:	AIR	MUD	ADDITIV	ES – SPECI	FY:					
MA	DRILLING METI	IOD:	ROTARY HAM	MER CAB	LE TOOL 🚺 OTH	ER – SPECI	FY: I	Hollow Stem	Auger	CHECK HER	RE IF PITLESS ADA	PTER IS
FOF	DEPTH (fee	t hal)	1	CASING	MATERIAL AND	O/OR						
l S	FROM	TO	BORE HOLE DIAM		GRADE			ASING NECTION	CASIN INSIDE I	2000	CASING WALL THICKNESS	SLOT SIZE
NISI	A 05.5832		(inches)		each casing string, sections of screen)		1	TYPE ling diameter)	(inche		(inches)	(inches)
& C	0	101	6.25"		Soil Borning						***	
NG												
						-						-
7						-				-		
	DEPTH (fee	et bgl)	BORE HOLE	LI	ST ANNULAR SI	EAL MAT	ERIAL	AND	AM	OUNT	METHO	
M	FROM	TO	DIAM. (inches)	GRA	VEL PACK SIZE		BY INTE	ERVAL	(cub	ic feet)	PLACE	MENT
TER					1	N/A						
MA									e:		-	
[AR									47.			
D.N.									- 05E E	MI APR 7	7023 mmil:3	10
3. ANNULAR MATERIAL												
25.5												
FOR	OSE INTERNA	L USE		.45				WR-2	0 WELL RE	CORD & L	OG (Version 01/2	28/2022)
	ENO. BA-		289		POD NO	). \		TRN		1383		
LOC	CATION	5.	30E.13	11	2			WELL TAG I	D NO.	NA	PAGE	E 1 OF 2

			T	T								TOTAL PROPERTY.
	DEPTH (feet bgl)  THICKNESS FROM TO  (feet)  COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)									WAT BEAR	ING?	YIELD FOR WATER-
	FROM	10	(1000)	(attach suj	pplemental she	ets to fully do	escribe a	all units)		(YES /	NO)	BEARING ZONES (gpm)
	0	14	14	Sand, F	ine grained, po	orly graded, E	Brownish	Red		Y	✓ N	
	14	19	5	Caliche, and	fine-grained sar	nd, poorly gra	ded, tam	, off white		Y	✓ N	
	19	70	51	Sand, Fine	grained, poorly	graded, with	some gr	avel 0.5"		Y	✓ N	
	70	80	10	Clay	y,friable, with f	ine sand, Brov	vnish Re	d		Y	✓ N	
	80	101	21		Clay, Stiff,	Brownish Re	d			Y	✓ N	
T										Y	N	
HYDROGEOLOGIC LOG OF WELL										Y	N	
OF										Y	N	
90										Y	N	
101										Y	N	
007										Y	N	
3EO										Y	N	
ROC										Y	N	
HXD										Y	N	
4.										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
- 1										Y	N	
	METHOD U		STIMATE YIELD	OF WATER-BEARIN	G STRATA: THER – SPECI	EV.				L ESTIM		0.00
	ПРОМ		IR LIFT	BAILERO	THEK - SPECI	F1;						
NOIS	WELL TES			ACH A COPY OF DAT ME, AND A TABLE S								
TEST; RIG SUPERVIS	MISCELLA	NEOUS IN	be	emoved temporary welow ground surface, cord.	ell material fro	om soil bori ydrated bent	ng, back	cfilled with o	rill cut	ting fron d surface	n total de	epth to 10 feet ached plugging
EST;	PRINTNAN	ME(S) OF D	RILL BIG SLIDER	RVISOR(S) THAT PRO	VIDED ONSI	TE SUPERVI	SIONO	F WELL CON	STRUC	TION O	THER TH	IAN LICENSEE
5. TI	Shane Eldric	0745		(VISOR(S) THAT PRO	OVIDED ONSI	IE SUPERVI	SIONO	r WELL CON	STRUC	TION O	THEK IT	IAN LICENSEE.
TURE	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE E DESCRIBED HOLE AN 80 DAYS AFTER COM	ND THAT HE	OR SHE WIL	L FILE	THIS WELL	RECOR	D WITH	THE STA	
. SIGNATURE	Jack At	kins		Ja	ckie D. Atkin	s				4/7/	2023	
.9		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME						DATE	
FOI	OSE INTER	NAL USE			100			WR-20 WE	LL REC	ORD & I	LOG (Ve	rsion 01/28/2022)
	ENO. RV.		289		POD NO.	١		TRN NO.	74	383		
LO	CATION		DE.13	112			WELL	TAG ID NO.	NY	7		PAGE 2 OF 2



895 07 AUG 8 2022 #410/15

19221	OSE POD NO	. (WELL	NO.)		WELL TAG ID NO	).		OSE FILE NO	S).				
<u>S</u>	POD 1				n/a			RA-13213					
AT	WELL OWN							PHONE (OPTIO	ONAL)				
ò	Burnett Oi	l Co,. I	nc										
T	Charles and an annual con-		ING ADDRESS	22				CITY			STATE		ZIP
VE!	87 Square	Lake R	d., Loco Hills, NN	1				Loco Hills		1	MV	88255	
é		T		DEGREES	MINUTES	SECOND	os						
¥	WELL LOCATIO	N	e - Canada da an	32	49	35.80		* ACCURACY	REOUIRED: 0	ONE TENTH	OF A SE	COND	
Z	(FROM GF		LATITUDE	103	55	35.05	5502	* DATUM REC					
GENERAL AND WELL LOCATION	- 2		LONGITUDE	(7/5/70)					3				
G.	La transcription and the control of				DDRESS AND COMMO	N LANDMAI	RKS – PLS	S (SECTION, TO	WNSHJIP, RA	NGE) WHE	RE AVAI	LABLE	
-	NE NE NV	V Sec,	24 T17S R20E NN	ИРМ									
	LICENSE NO	),	NAME OF LICES	SED DRILLER					NAME OF V	VELL DRIL	LING CO	MPANY	
	124	19			Jackie D. Atkins	S						Associates, I	nc.
	DRILLING S'	TARTED	DRILLING ENDI	D DEPTH OF	COMPLETED WELL (F	or I	BORE HOI	LE DEPTH (FT)	DEPTH WA	TER FIRST	FNCOU	NTERED (FT)	
	7/18/2		7/18/2022		n/a	., [.		101	Dei iii wi	TER THE	N/A		
								STATIC	WATER LEVE	ı		ATT STATE	e e e e e e e e e e e e e e e e e e e
-	COMPLETE	WELL I	S: ARTESIAN	✓ DRY	HOLE SHALLO	OW (UNCON	FINED)	IN COM	PLETED WELL		8	7/18/2022,	
DRILLING & CASING INFORMATION	DRILLING FI	I IIID:	☐ AIR	☐ MUD	ADDITIS	VES – SPECII	EV.	(FT)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
TA)	A STATE OF THE STA	SECONO SECONO						. 11 . 0.		CHECK H	FREIFP	ITLESS ADAI	TER IS
OR	DRILLING M	ETHOD:	ROTARY   I	IAMMER C	ABLE TOOL 7 OTH	IER – SPECII	Y: H	Iollow Stem A	Auger	INSTALLI	ED	TILLISS REPR	шкы
NF	DEPTH	(feet bg	BORE HOL	E CASIN	NG MATERIAL AN	D/OR	CA	SING	CASI	IG.	CASIN	IG WALL	SLOT
Č	FROM TO		DIAM	Z-1-1	GRADE	0000000 <b>0</b>		NECTION	INSIDE I	14750		KNESS	SIZE
ASI			(inches)		de each casing string ote sections of screen			YPE ing diameter)	(inche	es)	(in	ches)	(inches)
& C.	0	101	±6.5		Boring-HSA								
Q.													
1													
III													
2. D													
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		V											
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۰	DEPTH	A-2-1	DIAM (inch		LIST ANNULAR S					DUNT		METHO	
Z	FROM	TO	DIAM. (inch	es) G	RAVEL PACK SIZE	-RANGE E	BY INTE	RVAL	(cubi	c feet)		PLACEM	ENI
TE													
¥													
AR													
5													
ANNULAR MATERIAL													
3.													
FOR	OSE INTER	NAL US	SE					WR_20	WELL RE	CORD & 1	LOG (V	ersion 01/29	3/2022)
FILE			213		POD NO	D. 1		TRN N	and the second s	927		-10.0H 01/20	
LOC			DE. 24. 7	7.1			Τ,	WELL TAG ID				PAGE	1 OF 2

	DEPTH (i	feet bgl)	THICKNESS (feet)	INCLUDE WATE	ID TYPE OF MATI ER-BEARING CAV	TIES O	R FRACT	URE ZONES	s	WAT BEARI (YES /	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	9	9	Sand, mediu	m/fine-grained, poo	rly grade	d, Reddis	n Brown	$\dashv$	Y	✓ N	DOTTED (gpin)
3	9	59	50		and, fine-grained, po			<u> </u>		Y	✓ N	
	59	70	11		ne-grained, poorly a			own		Y	✓ N	
	70	80	10		ained, poorly grade			Paragraph and		Y	✓ N	
	80	101	21		ndy Clay, Stiff, low			***		Y	✓ N	
J.						2 12				Y	N	
4. HYDROGEOLOGIC LOG OF WELL										Y	N	
OF.										Y	N	
90										Y	N	
ICL										Y	N	
90										Y	N	
EOI										Y	N	
ROC										Y	N	
1XD										Y	N	
4									$\neg$	Y	N	
										Y	N	
										Y	N	
8							Y	N				
										Y	N	
										Y	N	
										Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:				TOTA	L ESTIM	ATED	
	PUMI	Р ПА	IR LIFT	BAILER OT	THER - SPECIFY:				WEL	L YIELD	(gpm):	0.00
VISION	WELL TES			ACH A COPY OF DAT ME, AND A TABLE SI								
	MISCELLA	NEOUS INF	ORMATION: Te	emporary well materia	al removed and so	oil borin	g backfill	ed using dri	ill cutt	ings from	total de	epth to ten feet
PEI			be	elow ground surface(b	gs), then hydrate	d benton	ite chips	ten feet bgs	to sur	race.		
le St								O:	E Di	AUGE	2022	ам].0416
TEST; RIG SUPER												
TES	PRINT NAM	ME(S) OF DI	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE S	UPERVI	SION OF	WELL CON	STRUC	CTION OT	THER TH	IAN LICENSEE:
S.	Shane Eldri	dge, Camer	on Pruitt									
	THE UNDE	RSIGNED H	IEREBY CERTIF	FIES THAT, TO THE B	BEST OF HIS OR H	IER KNO	WLEDG	E AND BEL	EF, TI	E FORE	GOING I	S A TRUE AND
JRE				DESCRIBED HOLE AN 30 DAYS AFTER COM				HIS WELL R	ECOR	D WITH	THE STA	ATE ENGINEER
IAT	2022 V											
SIGNATURE	Jack At	kins		Ja	ckie D. Atkins					8/4/2	2022	
9.	-	SIGNAT	LIBE OF DRILLE	ER / PRINT SIGNEE	NAME			-			DATE	
		SIGNAT	OKE OF DRILLE	A FRINT SIGNEE	IVAME						DATE	
FOI	OSE INTER							WR-20 WEI			The Property of the Parket	rsion 01/28/2022)
150 miles		4-132			POD NO.		8	TRN NO.	72	2927	4	Turn
LO	CATION 17	5.301	E. 24. 2.	7.		-	WELL T	AG ID NO.				PAGE 2 OF 2

#### Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD

Sent: Thursday, November 13, 2025 10:35 AM

To:gjennings@CascadeServicesLLC.com; Tyler Deans; Bobbi Jo CrainSubject:2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738]

**Attachments:** C-147 2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738] 11.13.2025.pdf

#### 2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738]

Good morning, Mr. Deans.

The NMOCD has reviewed the recycling containment permit application and related documents, submitted by [3080] BURNETT OIL CO INC on 10/15/2025, Application ID **515319**, for 2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738] in K-14-17S-30E, Eddy County, New Mexico. The form C-147 and related documents is approved with the following conditions of approval:

- The purpose of this permit is for oil and gas activities regulated under the NMAC 19.15.34.3 STATUTORY AUTHORITY: 19.15.34 NMAC is adopted pursuant to the Oil and Gas Act, Paragraph (15) of Section 70-2-12(B) NMSA 1978, which authorizes the division to regulate the disposition of water produced or used in connection with the drilling for or producing of oil and gas or both and Paragraph (21) of Section 70-2-12(B) NMSA 1978 which authorizes the regulation of the disposition of nondomestic wastes from the exploration, development, production or storage of crude oil or natural gas.
- [3080] BURNETT OIL CO INC shall construct, operate, maintain, close, and reclaim 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738] in compliance with 19.15.34 NMAC.
- 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738] is approved for five years of operation from the date of permit application of 10/15/2025. 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738] permit expires on 10/15/2030. If [3080] BURNETT OIL CO INC wishes to extend operations past five years, an annual permit extension request must be submitted using form C-147 through OCD Permitting by 09/15/2030.
- 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738] consists of one (1) earthen containment with a total capacity of 199,984.00 bbl.
- Water reused and recycled from 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738] is limited to wells owned and operated by [3080] BURNETT OIL CO INC.
- [3080] BURNETT OIL CO INC shall notify OCD when construction of 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738] commences.
- [3080] BURNETT OIL CO INC shall notify OCD when recycling operations commence and cease at 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738].
- A minimum of 3-feet freeboard must be maintained at 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738], at all times during operations.
- If less than 20% of the total fluid capacity is utilized every six months, beginning from the first withdrawal, operation of the facility is considered ceased and notification of cessation of operations should be sent electronically to OCD Permitting. An extension to extend the cessation of operation, not to exceed six months, may be submitted using a C-147 form through OCD Permitting.
- [3080] BURNETT OIL CO INC shall submit monthly reports of recycling and reuse of produced water drilling fluids, and liquid oil field waste on OCD form C-148 through OCD Permitting even if there is zero activity.
- [3080] BURNETT OIL CO INC shall inspect the recycling containment and associated leak detection systems weekly while it contains fluids. The operator shall maintain a current log of such inspections and make the log available for review by the division upon request.
- [3080] BURNETT OIL CO INC shall comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field wastes at 2RF-229 GISSLER A22 CONTAINMENT [FVV2531648738].

Please reference number 2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738] in all future communications. Thank you.

Victoria Venegas • Senior Environmental Scientist EMNRD - Oil Conservation Division 506 W. Texas Ave. Artesia, NM 88210 575.909.0269 | Victoria.Venegas@emnrd.nm.gov Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 515319

#### **CONDITIONS**

Operator:	OGRID:
BURNETT OIL CO INC	3080
801 Cherry Street Unit #9	Action Number:
Fort Worth, TX 76102	515319
	Action Type:
	[C-147] Water Recycle Long (C-147L)

#### CONDITIONS

(	Created By	Condition	Condition Date
	vvenegas	• [3080] BURNETT OIL CO INC shall construct, operate, maintain, close, and reclaim 2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738] in compliance with 19.15.34 NMAC. • 2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738] is approved for five years of operation from the date of permit application of 10/15/2025. 2RF-229 - GISSLER A22 CONTAINMENT [FVV2531648738] permit expires on 10/15/2030. If [3080] BURNETT OIL CO INC wishes to extend operations past five years, an annual permit extension request must be submitted using form C-147 through OCD Permitting by 09/15/2030. • [3080] BURNETT OIL CO INC shall comply with 19.15.29 NMAC Releases in the event of any release of produced water or other oil field wastes at 2RF-229 - GISSLER A22	11/13/2025