

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-52407
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name ALPHA STATE COM
8. Well Number 503H
9. OGRID Number 331595
10. Pool name [55610] SCHARB; BONE SPRING

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	7. Lease Name or Unit Agreement Name ALPHA STATE COM
2. Name of Operator FRANKLIN MOUNTAIN ENERGY 3, LLC	8. Well Number 503H
3. Address of Operator 44 COOK STREET, SUITE 1000, DENVER, CO 80206	9. OGRID Number 331595
4. Well Location Unit Letter <u>O</u> : <u>452</u> feet from the <u>SOUTH</u> line and <u>1365</u> feet from the <u>EAST</u> line Section <u>4</u> Township <u>19S</u> Range <u>35E</u> NMPM County <u>Lea</u>	10. Pool name [55610] SCHARB; BONE SPRING
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3891	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Franklin Mountain Energy 3, LLC (FME3), Operator, respectfully requests approval to make the following changes to the APD and drilling plan for the above referenced well:

Surface Hole Location: FME requests approval to move wellhead surface location the permitted SHL for the ALPHA STATE COM #303H (30-025-52406) well. A separate sundry will be submitted to address the SHL move for the Alpha 303H well.

The **ALPHA STATE COM #503H** would move from O-4-19S-35E, 452 FSL 1365 FEL to **O-4-19S-35E, 452 FSL 1395 FEL**. Target formation remains the same.

BHL remains the same: B-33-18S-35E, 130 FNL 2290 FEL

Please see attached revised C-102, directional plan, 14-point plan and geoprogram.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE Dir. Ops Planning & Regulatory DATE 6/3/2024

Type or print name Rachael Overbey E-mail address: roverbey@fmellc.com PHONE: 303.570.4057

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-52407	² Pool Code 55610	³ Pool Name SCHARB; BONE SPRING
⁴ Property Code 334693	⁵ Property Name ALPHA STATE COM	⁶ Well Number 503H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC	⁹ Elevation 3890.8'

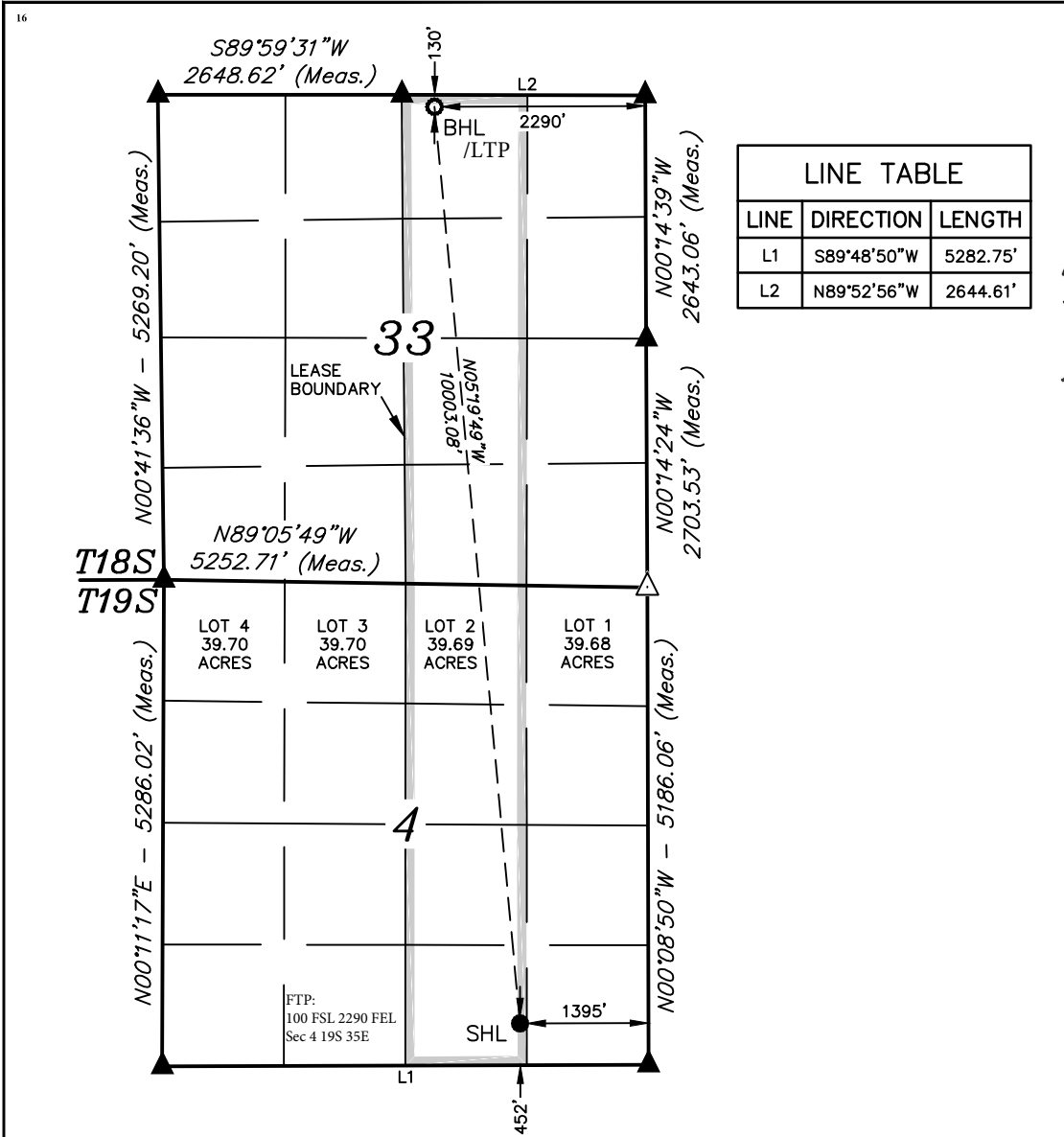
¹⁰ Surface Location

UL or lot no. O	Section 4	Township 19S	Range 35E	Lot Idn	Feet from the 452	North/South line SOUTH	Feet from the 1395	East/West line EAST	County LEA
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UL or lot no. B	Section 33	Township 18S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 2290	East/West line EAST	County LEA
¹² Dedicated Acres 319.69	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



¹⁷ OPERATOR
CERTIFICATION

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

Signature: *Rachael Overbey* Date: 5/2/2024

Printed Name: Rachael Overbey

E-mail Address: roverbey@fmellc.com

¹⁸ SURVEYOR
CERTIFICATION

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

August 23, 2023

Date of Survey

Signature and Seal of Professional Surveyor:



NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°41'01.08" (32.683632°)
LONGITUDE = -103°27'30.06" (-103.458349°)
NAD 27 (SURFACE HOLE LOCATION)
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- NOTE:
- Distances referenced on plat to section lines are perpendicular.
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
 - Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.



SCALE
DRAWN BY: T.J.S. 09-08-23
REV. 01 05-02-24 L.K. SHL MOVE

- = SURFACE HOLE LOCATION
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)



Alpha State Com 503H

1. **Geologic name of surface location:** Permian
2. **Estimated tops of important geological markers:**

Formations	PROG SS	PROG TVD	Picked TVD	delta	Potential/Issues
Cenozoic Alluvium (surface)	3,888'	30'	30'	0	Sand/Gravels/Unconsolidated
Rustler	1,969	1,949'			Carbonates
Salado	1,848	2,070'			Salt, Carbonate & Clastics
Base Salt	752	3,166'			Shaley Carbonate & Shale
Yates	520	3,398'			Anhydrite/Shale
Seven Rivers	31	3,887'			Interbedded Shale/Carbonate
Queen	-743	4,661'			Sandstone & Dolomite & Anhydrite
Delaware Mtn Group	-2,359	6,277'			Sandstone/Carb/Shale - oil/gas/water
Bone Spring Lime	-3,918	7,835'			Shale/Carbonates - oil/gas
First Bone Spring Sand	-5,397	9,315'			Sandstone - oil/gas/water
Second Bone Spring Carbonate	-5,670	9,588'			Shale/Carbonates - oil/gas
Second Bone Spring Sand	-5,954	9,872'			Sandstone - oil/gas/water
HZ Target	-6,032	9,950'			Sandstone - oil/gas/water
Third Bone Spring Carbonate	-6,310	10,228'			Shale/Carbonates - oil/gas

3. **Estimated depth of anticipated fresh water, oil or gas:**

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	6,277'	Oil
1 st Bone Spring Sand	9,315'	Oil
2 nd Bone Spring Carb	9,588'	Oil
2 nd Bone Spring Sand	9,872'	Oil
3 rd Bone Spring Sand	N/A	Oil
Wolfcamp	N/A	Oil
Wolfcamp B	N/A	Oil

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Surface freshwater sands will be protected by setting 13-3/8" casing at 1,999' and circulating cement back to surface.

4. **Casing Program:**

All casing strings will be run new.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13 3/8"	54.5	J-55	2730	1130	853	BTC 909	1,999	0.99	1.09	4.08	4.35
Intermediate 9 5/8"	40	HCL-80	7430	4230	916	BTC 1042	4,120	2.04	2.19	3.46	3.94
Production 7"	32	HCP-110	12460	10760	1025	CDC-HTQ 1053	9,475	1.94	2.43	2.54	2.61
Production 5 1/2"	20	HCP-110	12640	12200	641	CDC-HTQ 667	10,690 9,950	1.15	2.44	2.04	2.13 2.23

Tapered production string will be ran with a X-over installed at the KOP of 9,475'.



Cementing Program:

Cementing Stage tool can be placed in the 1st Intermediate string as a contingency to ensure required TOC to surface.

To increase efficiency of drilling operations and minimize disturbance of the area the batch-drilling approach will be used.

Off-line cementing may be utilized for Surface, Intermediate, and Production strings to further optimization of drilling process and reduction of disturbance.

String Type	Hole Size	Casing		Sacks	Type of cmt	Lead			Sacks	Type of cmt	Tail			TOC	Excess
		Size	Setting Depth			Yield ft3/sk	Water gal/sk	TOC ft			Yield ft3/sk	Water gal/sk	TOC		
Surf	17.5	13.375	1,999	1084	85:15 Compass Poz, 12.8 ppg Class C, 5%Gel, 3#/sk Kol Seal, 4.64#/sk Salt	2.05	11.12	0	441	Tail, 14.8 ppg, 100% Class C, 1%CaCl2, 0.1%	1.34	6.35	1,599	100%	
Int1	12.25	9.625	4,120	658	Lead, 11.3 ppg, HSLD 82 10% Gel, 4% STE, 2#/sk, Gyp Seal	2.74	16.31	0	201	Econolite Tail, 14.8 ppg, 100% Class C, 0.08% C-51	1.33	6.33	3,720	100%	
Prod	8.75	7	9,475	443	HSLD 9420, 10.5 ppg, Class C, 1#/sk Salt, 4% STE 1% C-45	3.99	25.51	3,120						100%	
Prod	8.75	5.5	20,165						2668	HSLD 80, 13.ppg , 32#/sk Salt, 4% STE, 1#/sk Gyp Seal	1.52	7.59	9,475	50%	

5. Minimum Specifications for Pressure Control:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5,000-psi WP). Both units will be hydraulically operated, and the ram-type will be equipped with blind rams on bottom and 4 ½" x 7" variable pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/250 psig and the annular preventer to 3,500/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 3,500/250 psig.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.



6. Types and characteristics of the proposed mud system:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal. The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,999'	Fresh - Gel	8.6-8.8	28-34	N/c
1,999' – 4,120'	Brine	8.8-10.2	28-34	N/c
4,120' – 10,375'	Brine	8.8-10.2	28-34	N/c
10,375' – 20,165' Lateral	Oil Base	9.0-11	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 9-11 ppg. In order to maintain hole stability, mud weights up to 11 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

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

7. Auxiliary well control and monitoring equipment:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be kept on the rig floor at all times.

(C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

(D) A wear bushing will be installed in the wellhead prior to drilling out of the surface casing.

8. Logging, testing and coring program:

GR–CCL–CNL Will be run in cased hole during completions phase of operations.

Open-hole logs are not planned for this well.

9. Abnormal conditions, pressures, temperatures and potential hazards:

The estimated bottom-hole temperature at 9,950' TVD (deepest point of the well) is 170F with an estimated maximum bottom-hole pressure (BHP) at the same point of 5,691' psig (based on 11 ppg MW). Hydrogen Sulfide may be present in the area. All necessary precautions will be taken before drilling operations commence. See Hydrogen Sulfide Plan below:

10. Hydrogen Sulfide Plan:

- A. All personnel shall receive proper awareness H₂S training.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment
 - a. Well Control Equipment
 - i. Flare line 150' from wellhead to be ignited by auto ignition sparking system.
 - ii. Choke manifold with a remotely operated hydraulic choke.
 - iii. Mud/gas separator
 - b. Protective equipment for essential personnel



- i. Breathing Apparatus
 - 1. Rescue packs (SCBA) – 1 unit shall be placed at each briefing area, 2 shall be stored in a safety trailer on site.
 - 2. Work/Escapes packs – 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity
 - 3. Emergency Escape Packs – 4 packs shall be stored in the doghouse for emergency evacuation.
- ii. Auxiliary Rescue Equipment
 - 1. Stretcher
 - 2. Two OSHA full body harnesses
 - 3. 100 feet of 5/8 inches OSHA approved rope
 - 4. 1-20# class ABC fire extinguisher
- c. H2S Detection and Monitoring Equipment
 - i. A stationary detector with three sensors will be placed in the doghouse if equipped, set to visually alarm at 10 ppm and audible at 14 ppm. The detector will be calibrated a minimum of every 30 days or as needed. The sensors will be placed in the following places:
 - 1. Rig Floor
 - 2. Below Rig Floor / Near BOPs
 - 3. End of flow line or where well bore fluid is being discharged (near shakers)
 - ii. If H2S is encountered, measured values and formations will be provided to the BLM.
- d. Visual Warning Systems
 - i. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - ii. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - iii. Two windsocks will be placed in strategic locations, visible from all angles.
- e. Mud Program
 - i. The Mud program will be designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.
- f. Metallurgy
 - i. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service at the anticipated operating pressures to prevent sour sulfide stress cracking.
- g. Communication
 - i. Communication will be via cell phones and walkie talkies on location.

Based on concentrations of offset wells, proximity to main roads, and distance to populated areas, the radius of exposure created by a potential release was determined to be minimal and low enough to not necessitate an H2S contingency plan. This will be reevaluated during wellbore construction if H2S is observed and after the well is on production.

11. Anticipated starting date and duration of operations:



The drilling operations on the well should be finished in approximately one month. However, in order to minimize disturbance in the area and to improve efficiency Franklin Mountain is planning to drill all the wells on the pad prior to commence completion operations. To even further reduce the time heavy machinery is used the "batch drilling" method may be used. A batch drilling sequence sundry will be submitted for State approval prior to spud. A drilling rig with walking/skidding capabilities will be used.

12. Disposal/environmental concerns:

- (A) Drilled cuttings will be hauled to and disposed of in a state-certified disposal site.
- (B) Non-hazardous waste mud/cement from the drilling process will also be hauled to and disposed of in a state-certified disposal site.
- (C) Garbage will be hauled to the Pecos City Landfill.
- (D) Sewage (grey water) will be hauled to the Carlsbad City Landfill

13. Wellhead:

A multi-bowl wellhead system will be utilized.

After running the 13 3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 30 days.

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5,000 psi.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing string. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi.

Both the surface and intermediate casing strings will be tested as per NMOCD Rules to the one-third of manufacture's rated yield pressure, no less than 600 psi, but not greater than 1,500 psi.

14. Additional variance requests

A. Casing.

1. Variance is requested to wave/reduce the centralizer requirements for the 7" and 5 1/2" production casing due to the tight clearance with 8 3/4" hole.

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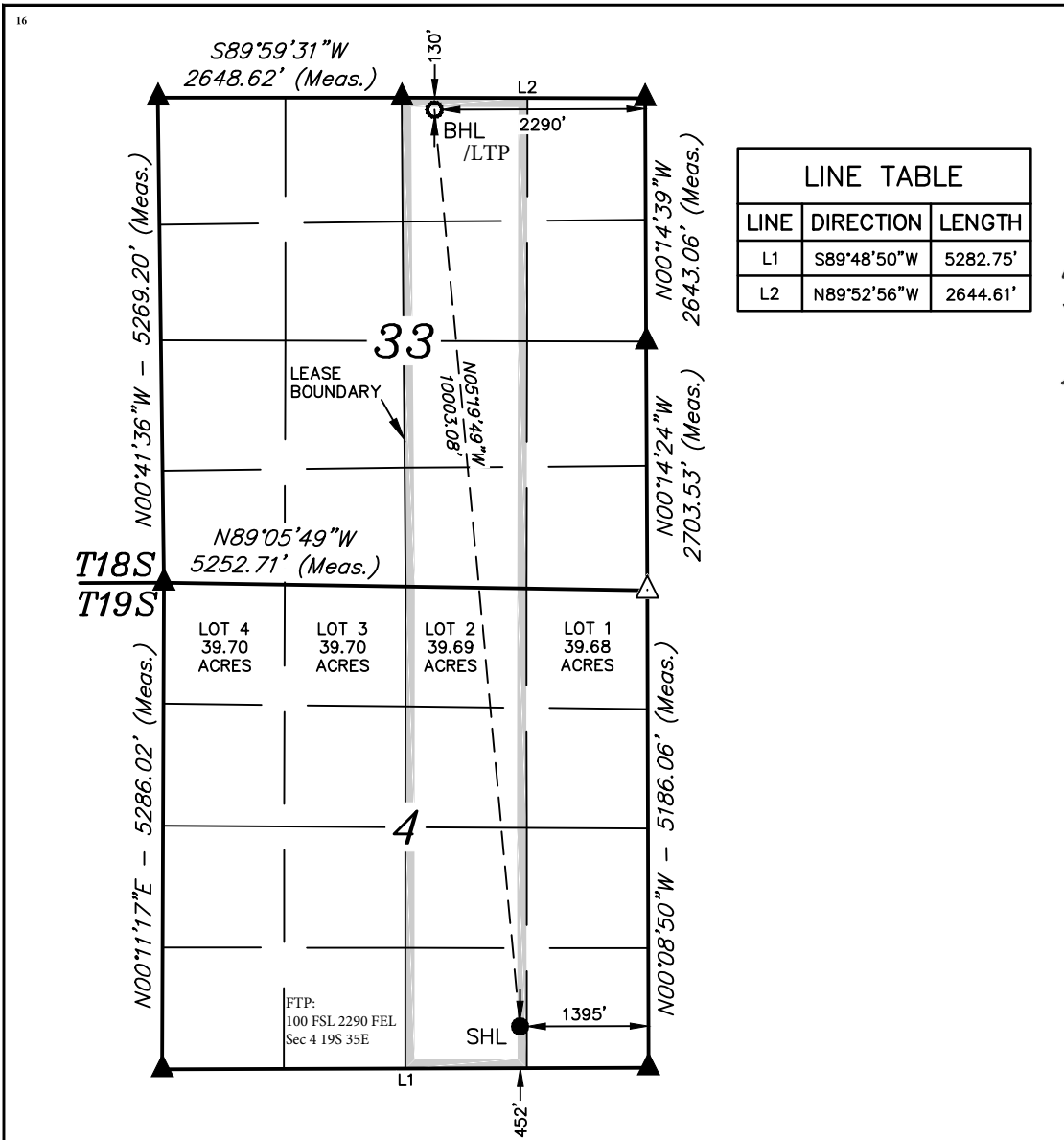
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E-mail Address: roverbey@fmellc.com

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August 23, 2023

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Certificate Number:

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 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
 - Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.



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- = SURFACE HOLE LOCATION
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(Not Set on Ground.)

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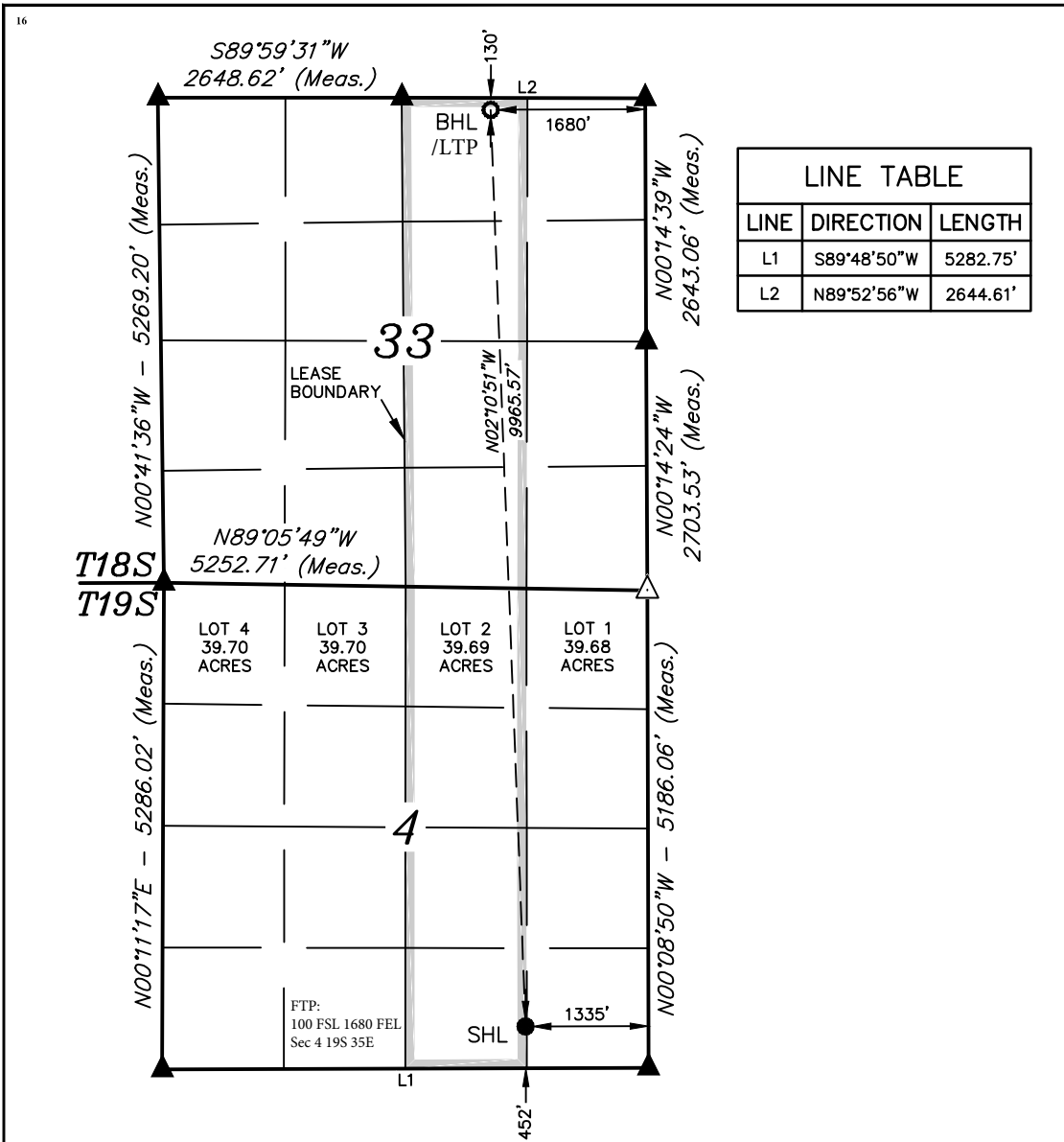
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CERTIFICATION

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

Signature: *Rachael Overbey* Date: 5/2/2024

Printed Name: Rachael Overbey

E-mail Address: roverbey@fmellc.com

- NOTE:
- Distances referenced on plat to section lines are perpendicular.
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
 - Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.



SCALE
DRAWN BY: T.J.S. 09-08-23
REV. 01 05-02-24 L.K. SHL MOVE

- = SURFACE HOLE LOCATION
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)

NAD 83 (SURFACE HOLE LOCATION) LATITUDE = 32°41'01.07" (32.683632°) LONGITUDE = -103°27'29.36" (-103.458154°)
NAD 27 (SURFACE HOLE LOCATION) LATITUDE = 32°41'00.63" (32.683509°) LONGITUDE = -103°27'27.59" (-103.457663°)
STATE PLANE NAD 83 (N.M. EAST) N: 613547.01' E: 810604.72'
STATE PLANE NAD 27 (N.M. EAST) N: 613483.32' E: 769424.55'
NAD 83 (BOTTOM HOLE LOCATION) LATITUDE = 32°42'39.61" (32.711002°) LONGITUDE = -103°27'33.33" (-103.459257°)
NAD 27 (BOTTOM HOLE LOCATION) LATITUDE = 32°42'39.16" (32.710878°) LONGITUDE = -103°27'31.55" (-103.458765°)
STATE PLANE NAD 83 (N.M. EAST) N: 623502.07' E: 810183.33'
STATE PLANE NAD 27 (N.M. EAST) N: 623438.09' E: 769003.48'

¹⁸ SURVEYOR
CERTIFICATION

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

August 23, 2023

Date of Survey

Signature and Seal of Professional Surveyor:

Paul Buchele

PAUL BUCHELE
NEW MEXICO
23782
05-02-24
PROFESSIONAL SURVEYOR

Certificate Number:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
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District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-52411	² Pool Code 55640	³ Pool Name SCHARB;WOLFCAMP
⁴ Property Code 334693	⁵ Property Name ALPHA STATE COM	⁶ Well Number 703H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC	⁹ Elevation 3891.5'

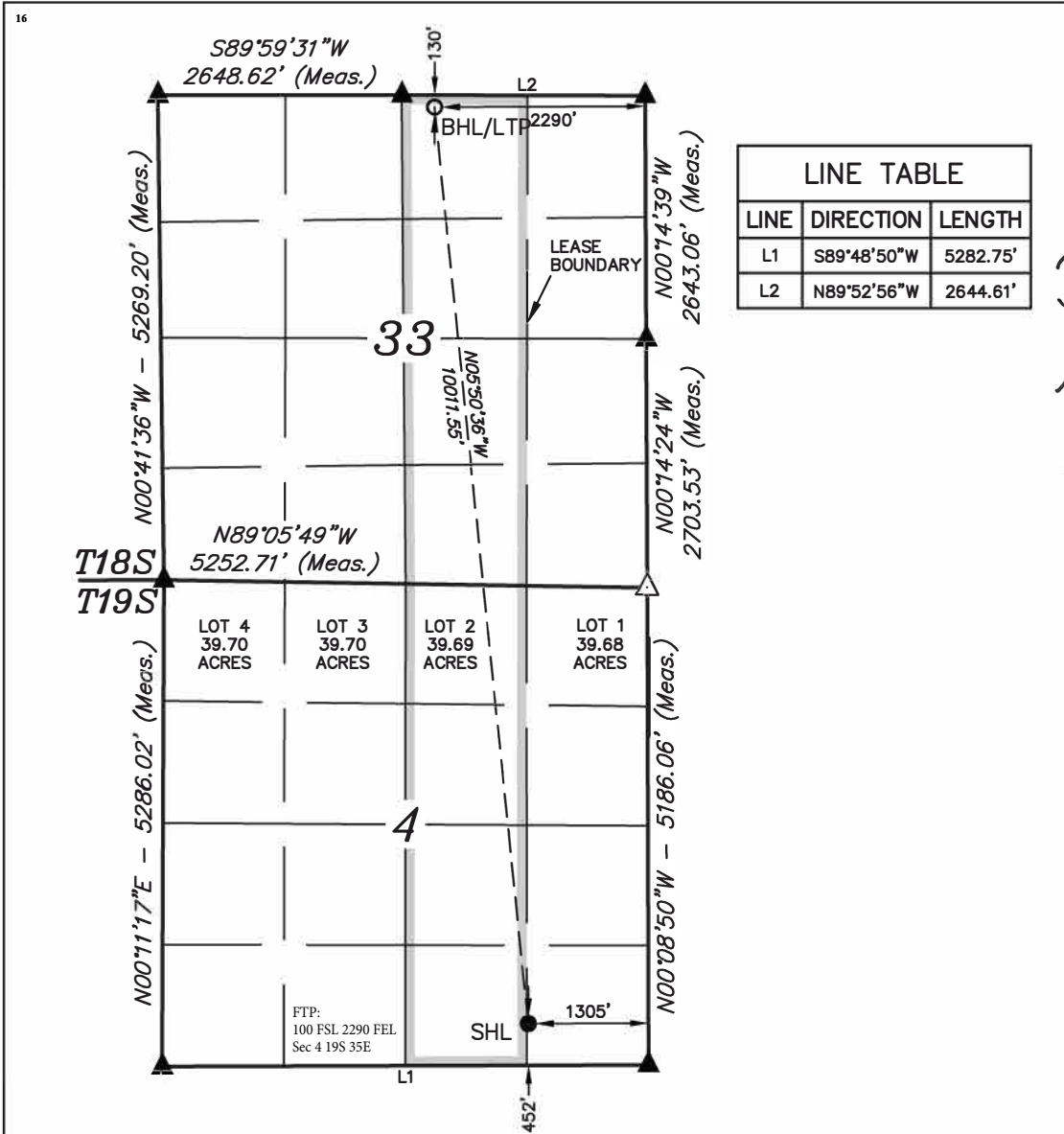
¹⁰ Surface Location

UL or lot no. P	Section 4	Township 19S	Range 35E	Lot Idn	Feet from the 452	North/South line SOUTH	Feet from the 1305	East/West line EAST	County LEA
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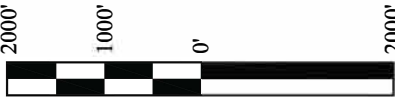
¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 33	Township 18S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 2290	East/West line EAST	County LEA
¹² Dedicated Acres 319.69	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



- NOTE:
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SCALE

DRAWN BY: T.J.S. 09-08-23
REV. 01 05-02-24 L.K. SHL MOVE

- = SURFACE HOLE LOCATION
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED (Not Set on Ground.)

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°48'50"W	5282.75'
L2	N89°52'56"W	2644.61'

¹⁷ OPERATOR CERTIFICATION

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

Signature: *Rachael Overbey* Date: 5/2/2024

Rachael Overbey

Printed Name

roverbey@fmellc.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

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

August 23, 2023

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 55610	³ Pool Name SCHARB; BONE SPRING
⁴ Property Code	⁵ Property Name ALPHA STATE COM	⁶ Well Number 304H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC	⁹ Elevation 3891.2'

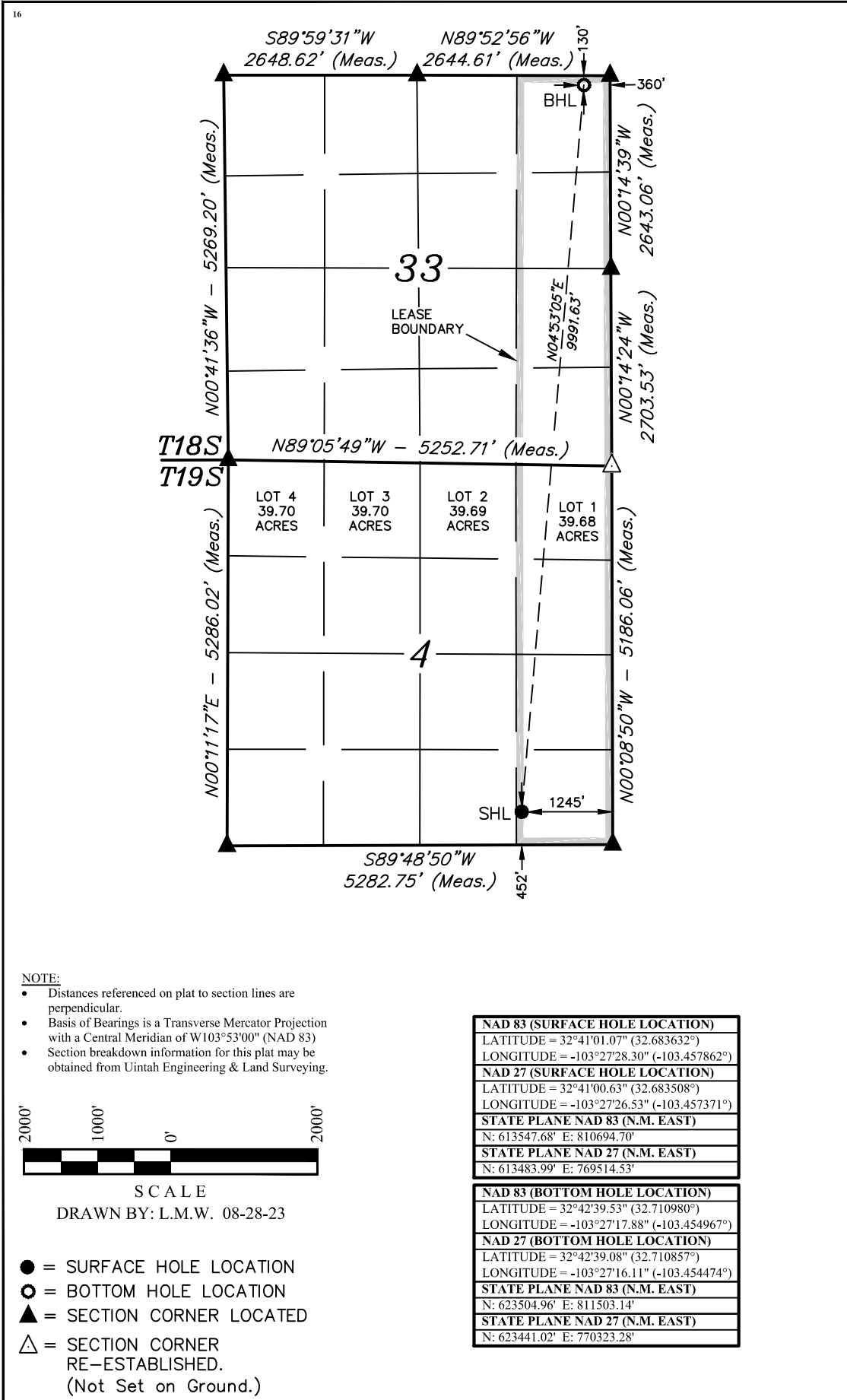
¹⁰ Surface Location

UL or lot no. P	Section 4	Township 19S	Range 35E	Lot Idn	Feet from the 452	North/South line SOUTH	Feet from the 1245	East/West line EAST	County LEA
--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 33	Township 18S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 360	East/West line EAST	County LEA
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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Signature: *Rachael Overbey* Date: 8/30/2023

Printed Name: Rachael Overbey

E-mail Address: roverbey@fmllc.com

¹⁸ SURVEYOR CERTIFICATION

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August 23, 2023

Date of Survey

Signature and Seal of Professional Surveyor:

PAUL BUCHELE
NEW MEXICO
23782
08-28-23
PROFESSIONAL SURVEYOR

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 55610	³ Pool Name SCHARB; BONE SPRING
⁴ Property Code	⁵ Property Name ALPHA STATE COM	⁶ Well Number 603H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC	⁹ Elevation 3894.8'

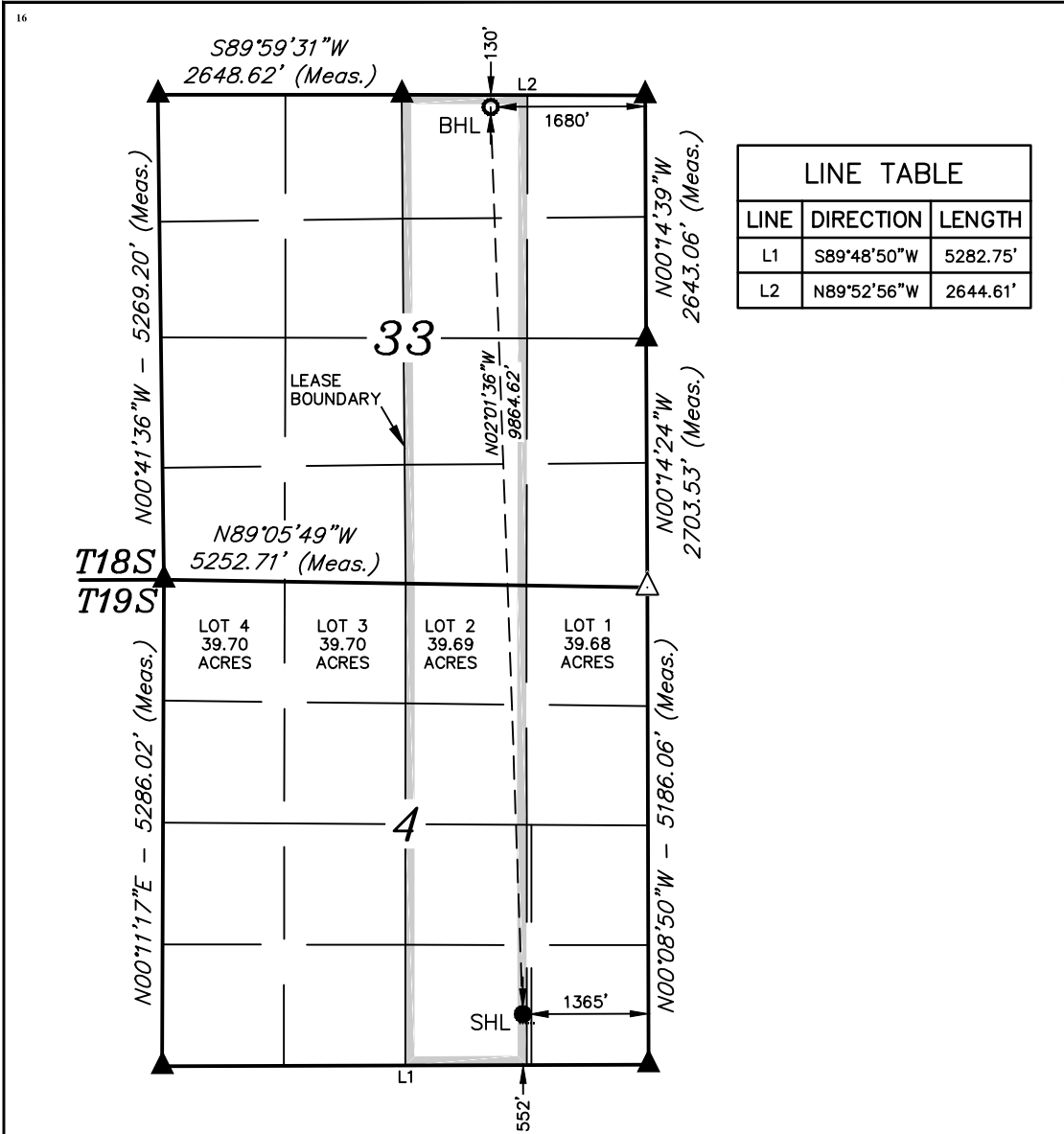
¹⁰ Surface Location

UL or lot no. O	Section 4	Township 19S	Range 35E	Lot Idn	Feet from the 552	North/South line SOUTH	Feet from the 1365	East/West line EAST	County LEA
--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	Section 33	Township 18S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 1680	East/West line EAST	County LEA
¹² Dedicated Acres 319.69	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



¹⁷ OPERATOR
CERTIFICATION

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Signature: *Rachael Overbey* Date: 9/27/2023

Printed Name: Rachael Overbey

E-mail Address: roverbey@fmellc.com

¹⁸ SURVEYOR
CERTIFICATION

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August 23, 2023

Date of Survey

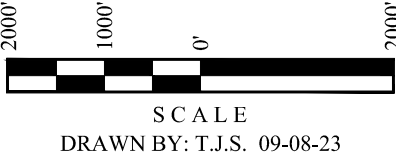
Signature and Seal of Professional Surveyor:



NOTE:

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- Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°41'02.06" (32.683907°)
LONGITUDE = -103°27'29.71" (-103.458252°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°41'01.62" (32.683783°)
LONGITUDE = -103°27'27.94" (-103.457760°)
STATE PLANE NAD 83 (N.M. EAST)
N: 613646.77' E: 810573.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 613583.07' E: 769393.81'
NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°42'39.61" (32.711002°)
LONGITUDE = -103°27'33.33" (-103.459257°)
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°42'39.16" (32.710878°)
LONGITUDE = -103°27'31.55" (-103.458765°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623502.07' E: 810183.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 623438.09' E: 769003.48'



● = SURFACE HOLE LOCATION
○ = BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED
△ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)

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OIL CONSERVATION DIVISION
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Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 55610	³ Pool Name SCHARB; BONE SPRING
⁴ Property Code	⁵ Property Name ALPHA STATE COM		⁶ Well Number 604H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC		⁹ Elevation 3894.5'

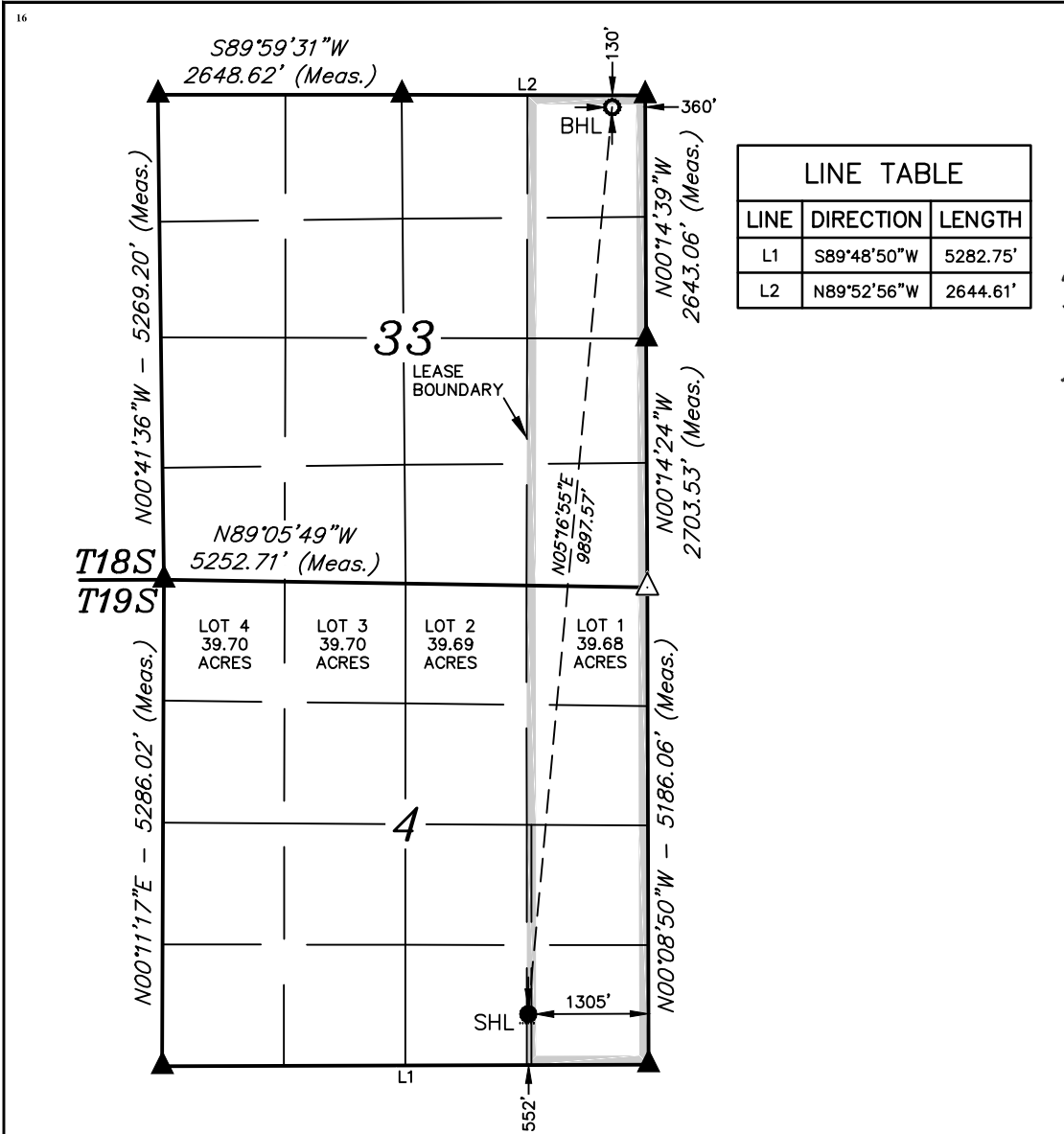
¹⁰ Surface Location

UL or lot no. P	Section 4	Township 19S	Range 35E	Lot Idn	Feet from the 552	North/South line SOUTH	Feet from the 1305	East/West line EAST	County LEA
--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 33	Township 18S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 360	East/West line EAST	County LEA
¹² Dedicated Acres 319.68		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S89°48'50"W	5282.75'
L2	N89°52'56"W	2644.61'

¹⁷ OPERATOR
CERTIFICATION

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Rachael Overbey 9/27/2023
Signature Date

Rachael Overbey
Printed Name

roverbey@fmellc.com
E-mail Address

¹⁸ SURVEYOR
CERTIFICATION

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August 23, 2023

Date of Survey
Signature and Seal of Professional Surveyor:



Certificate Number:

- NOTE:
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S C A L E

DRAWN BY: T.J.S. 09-08-23

- = SURFACE HOLE LOCATION
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)

NAD 83 (SURFACE HOLE LOCATION)	
LATITUDE = 32°41'02.06" (32.683907°)	
LONGITUDE = -103°27'29.00" (-103.458057°)	
NAD 27 (SURFACE HOLE LOCATION)	
LATITUDE = 32°41'01.62" (32.683783°)	
LONGITUDE = -103°27'27.24" (-103.457566°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 613647.22' E: 810633.96'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 613583.52' E: 769453.80'	
NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°42'39.53" (32.710980°)	
LONGITUDE = -103°27'17.88" (-103.454967°)	
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°42'39.08" (32.710857°)	
LONGITUDE = -103°27'16.11" (-103.454474°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 623504.96' E: 811503.14'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 623441.02' E: 770323.28'	

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1220 South St. Francis Dr.
Santa Fe, NM 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 55640	³ Pool Name SCHARB;WOLFCAMP	
⁴ Property Code	⁵ Property Name ALPHA STATE COM			⁶ Well Number 704H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC			⁹ Elevation 3891.4'

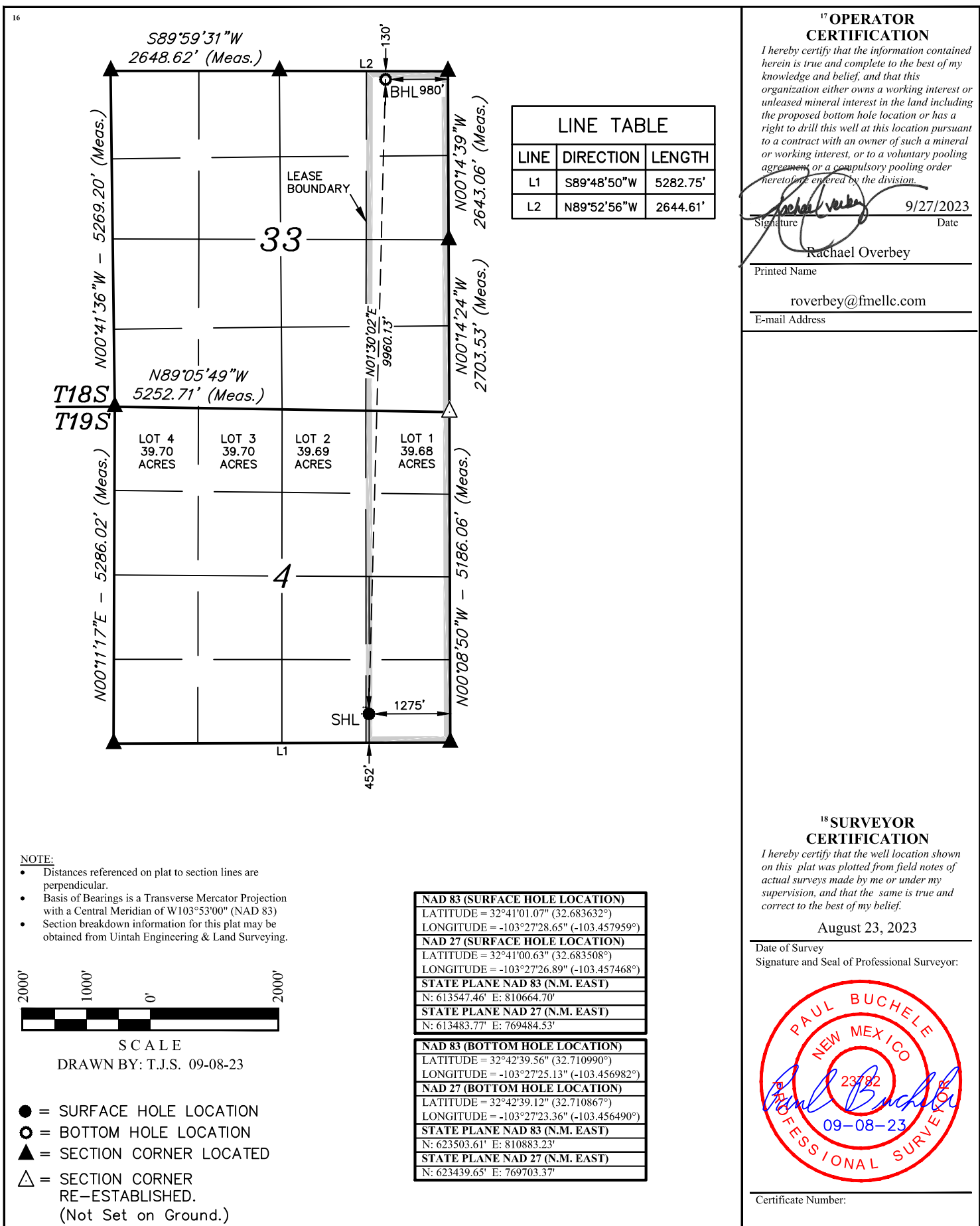
¹⁰ Surface Location

UL or lot no. P	Section 4	Township 19S	Range 35E	Lot Idn	Feet from the 452	North/South line SOUTH	Feet from the 1275	East/West line EAST	County LEA
--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

" Bottom Hole Location If Different From Surface

UL or lot no. A	Section 33	Township 18S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 980	East/West line EAST	County LEA
¹² Dedicated Acres 319.68		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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WELL LOCATION AND ACREAGE DEDICATION PLAT

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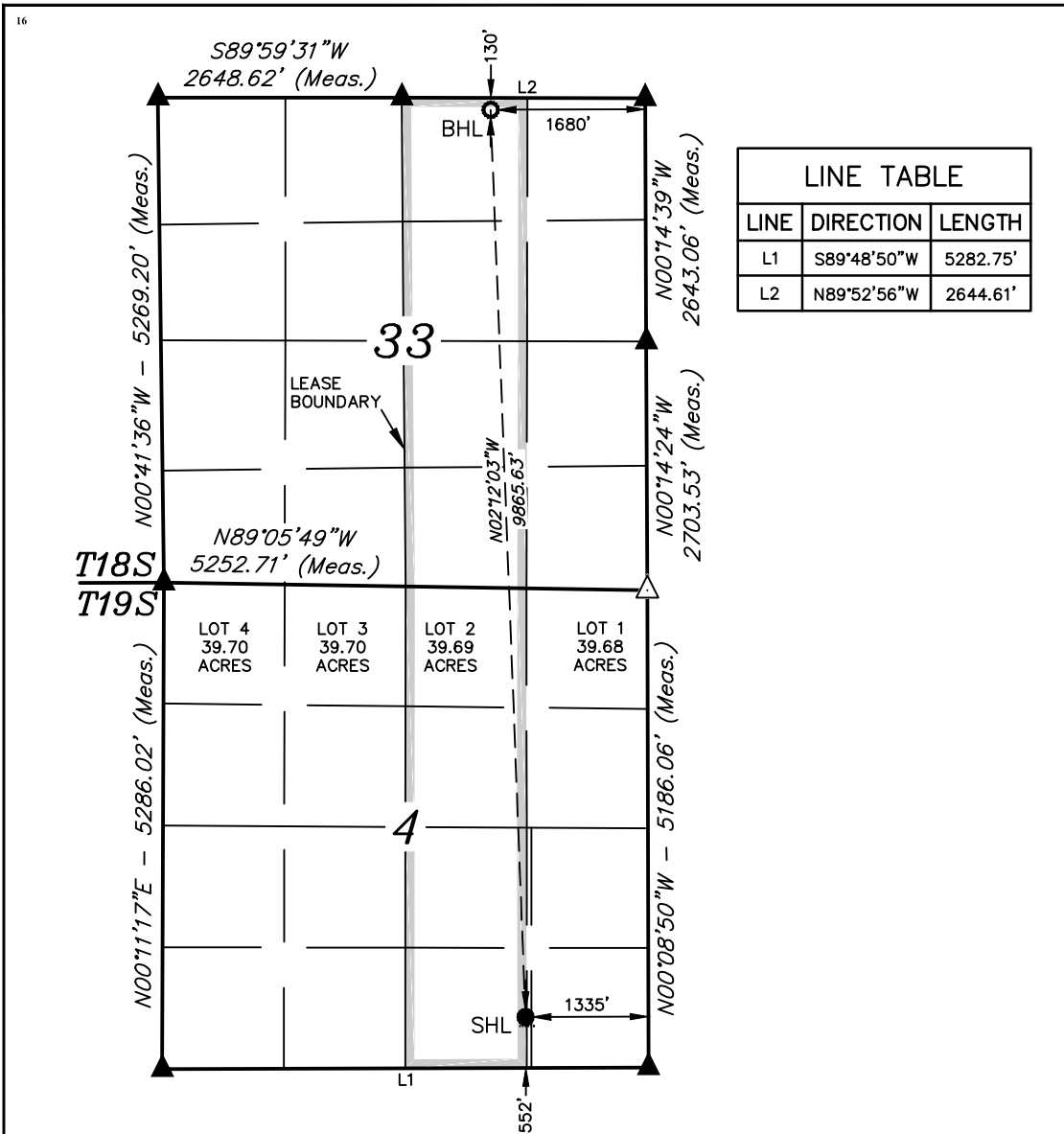
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--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

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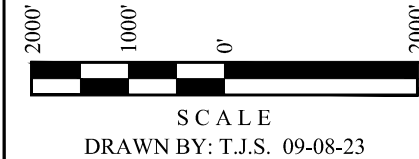
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Signature: *Rachael Overbey* Date: 9/27/2023

Printed Name: Rachael Overbey

E-mail Address: roverbey@fmellc.com

- NOTE:
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(Not Set on Ground.)

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STATE PLANE NAD 27 (N.M. EAST)
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NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°42'39.16" (32.710878°)
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August 23, 2023

Date of Survey

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Paul Buchele

PAUL BUCHELE
NEW MEXICO
23782
09-08-23
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 55640	³ Pool Name SCHARB;WOLFCAMP
⁴ Property Code	⁵ Property Name ALPHA STATE COM	⁶ Well Number 804H
⁷ OGRID No. 331595	⁸ Operator Name FRANKLIN MOUNTAIN ENERGY 3, LLC	⁹ Elevation 3894.4'

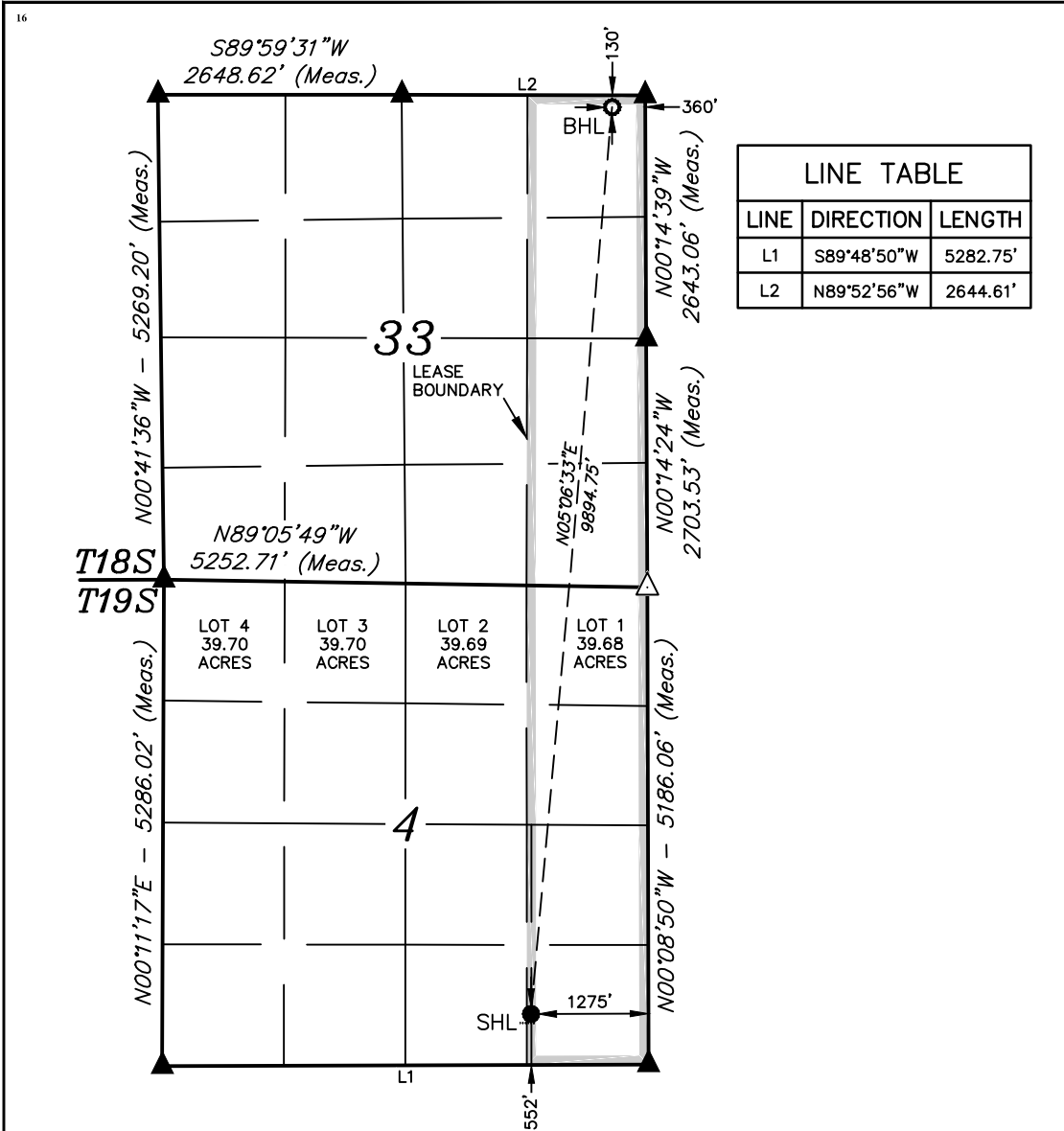
¹⁰ Surface Location

UL or lot no. P	Section 4	Township 19S	Range 35E	Lot Idn	Feet from the 552	North/South line SOUTH	Feet from the 1275	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 33	Township 18S	Range 35E	Lot Idn	Feet from the 130	North/South line NORTH	Feet from the 360	East/West line EAST	County LEA
¹² Dedicated Acres 319.68	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



¹⁷ OPERATOR
CERTIFICATION

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

Signature: *Rachael Overbey* Date: 9/27/2023

Printed Name: Rachael Overbey

E-mail Address: roverbey@fmellc.com

¹⁸ SURVEYOR
CERTIFICATION

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

August 23, 2023

Date of Survey

Signature and Seal of Professional Surveyor:



- NOTE:
- Distances referenced on plat to section lines are perpendicular.
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
 - Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.

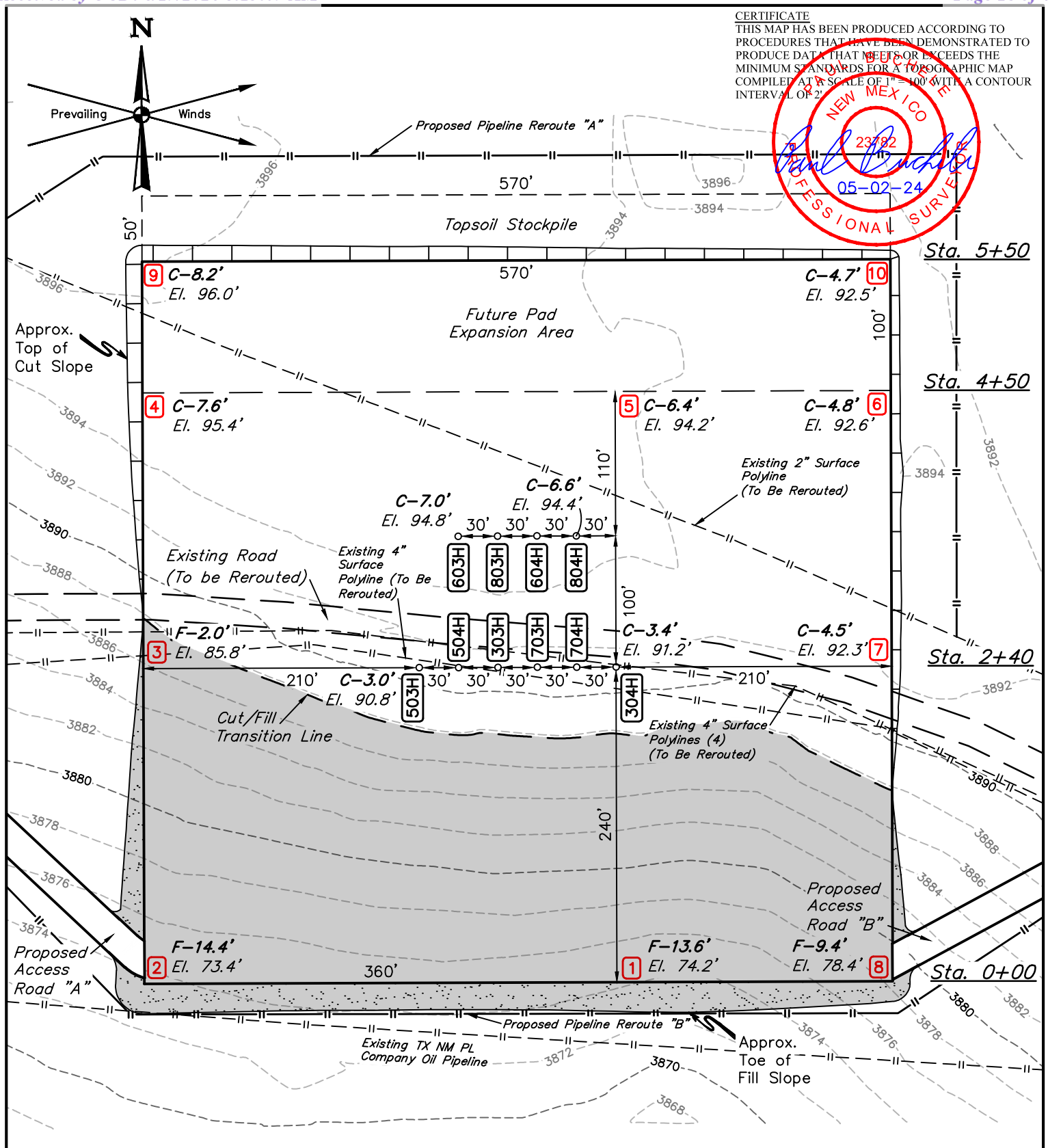


SCALE
DRAWN BY: T.J.S. 09-08-23

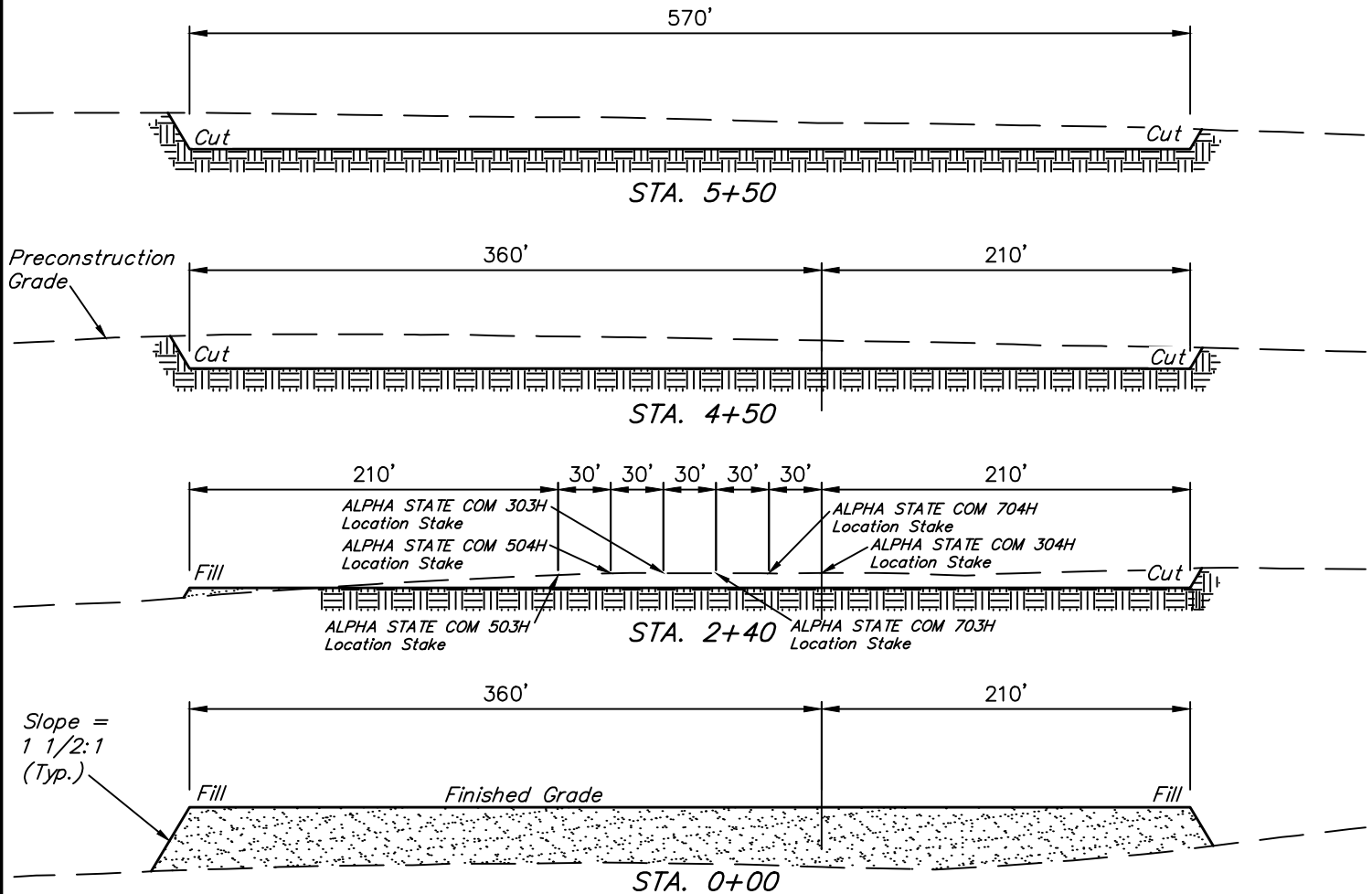
- = SURFACE HOLE LOCATION
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°41'02.06" (32.683907°)
LONGITUDE = -103°27'28.65" (-103.457959°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°41'01.62" (32.683783°)
LONGITUDE = -103°27'26.88" (-103.457468°)
STATE PLANE NAD 83 (N.M. EAST)
N: 613647.44' E: 810663.96'
STATE PLANE NAD 27 (N.M. EAST)
N: 613583.75' E: 769483.79'
NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°42'39.53" (32.710980°)
LONGITUDE = -103°27'17.88" (-103.454967°)
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°42'39.08" (32.710857°)
LONGITUDE = -103°27'16.11" (-103.454474°)
STATE PLANE NAD 83 (N.M. EAST)
N: 623504.96' E: 811503.14'
STATE PLANE NAD 27 (N.M. EAST)
N: 623441.02' E: 770323.28'

Certificate Number:



X-Section
Scale
1" = 100'



APPROXIMATE SURFACE DISTURBANCE AREAS

APPROXIMATE EARTHWORK QUANTITIES	
(6") TOPSOIL STRIPPING	6,320 Cu. Yds.
REMAINING LOCATION	37,590 Cu. Yds.
TOTAL CUT	43,910 Cu. Yds.
FILL	37,590 Cu. Yds.
EXCESS MATERIAL	6,320 Cu. Yds.
TOPSOIL	6,320 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±8.352
30' WIDE ACCESS ROAD "A" R-O-W DISTURBANCE	±375.86'	±0.259
30' WIDE ACCESS ROAD "B" R-O-W DISTURBANCE	±212.26'	±0.146
30' WIDE FLOW LINE REROUTE "A" R-O-W DISTURBANCE	±1138.86'	±0.785
30' WIDE FLOW LINE REROUTE "B" R-O-W DISTURBANCE	±1218.96'	±0.840
30' WIDE FLOW LINE R-O-W DISTURBANCE	±2271.25'	±1.564
30' WIDE POWER LINE R-O-W DISTURBANCE	±588.98'	±0.406
TOTAL SURFACE USE AREA		±12.352

REV: 2 05-02-24 L.K. (SURFACE HOLE MOVES)

NOTES:

- Fill quantity includes 5% for compaction.

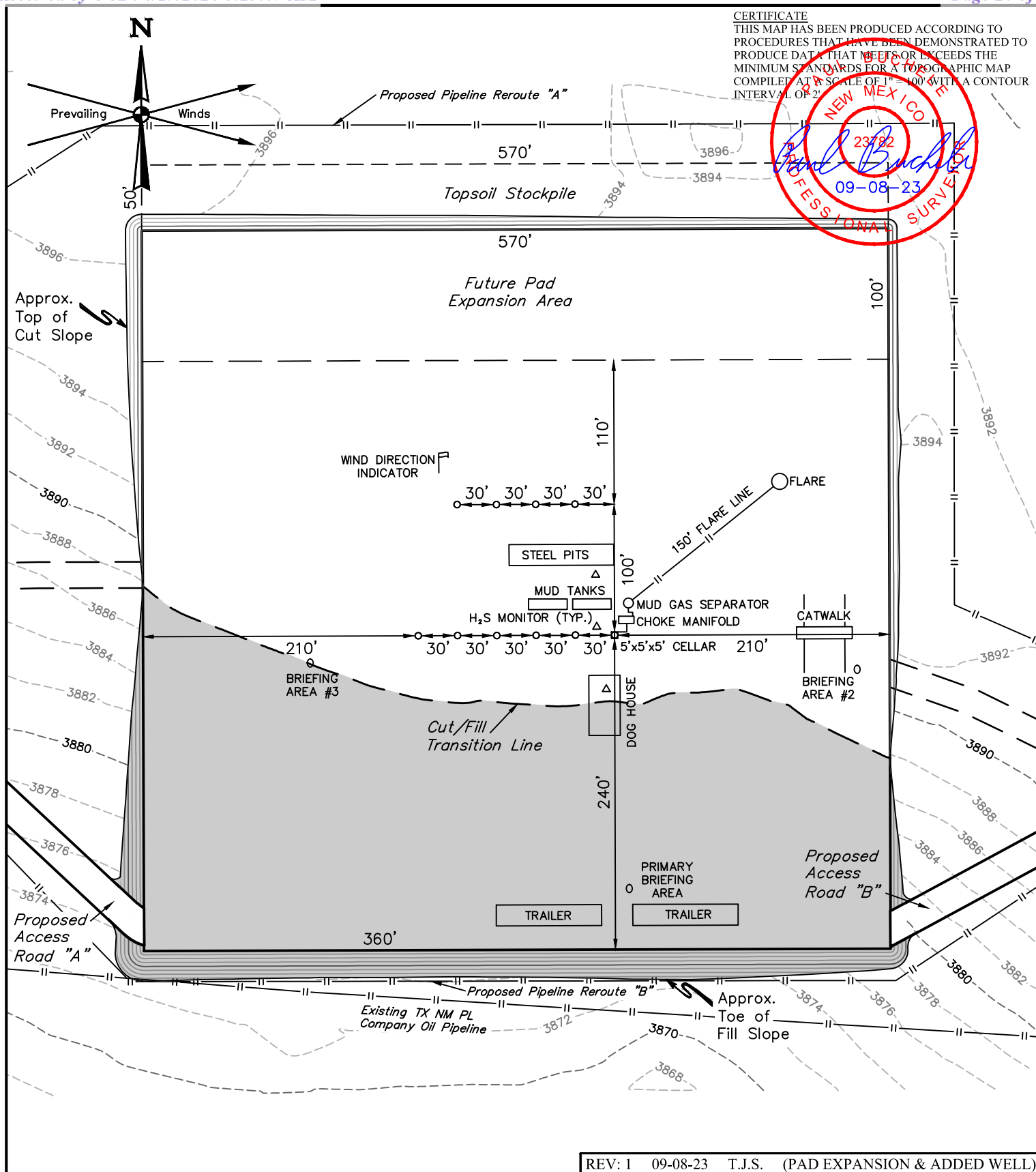
FRANKLIN MOUNTAIN ENERGY 3, LLC

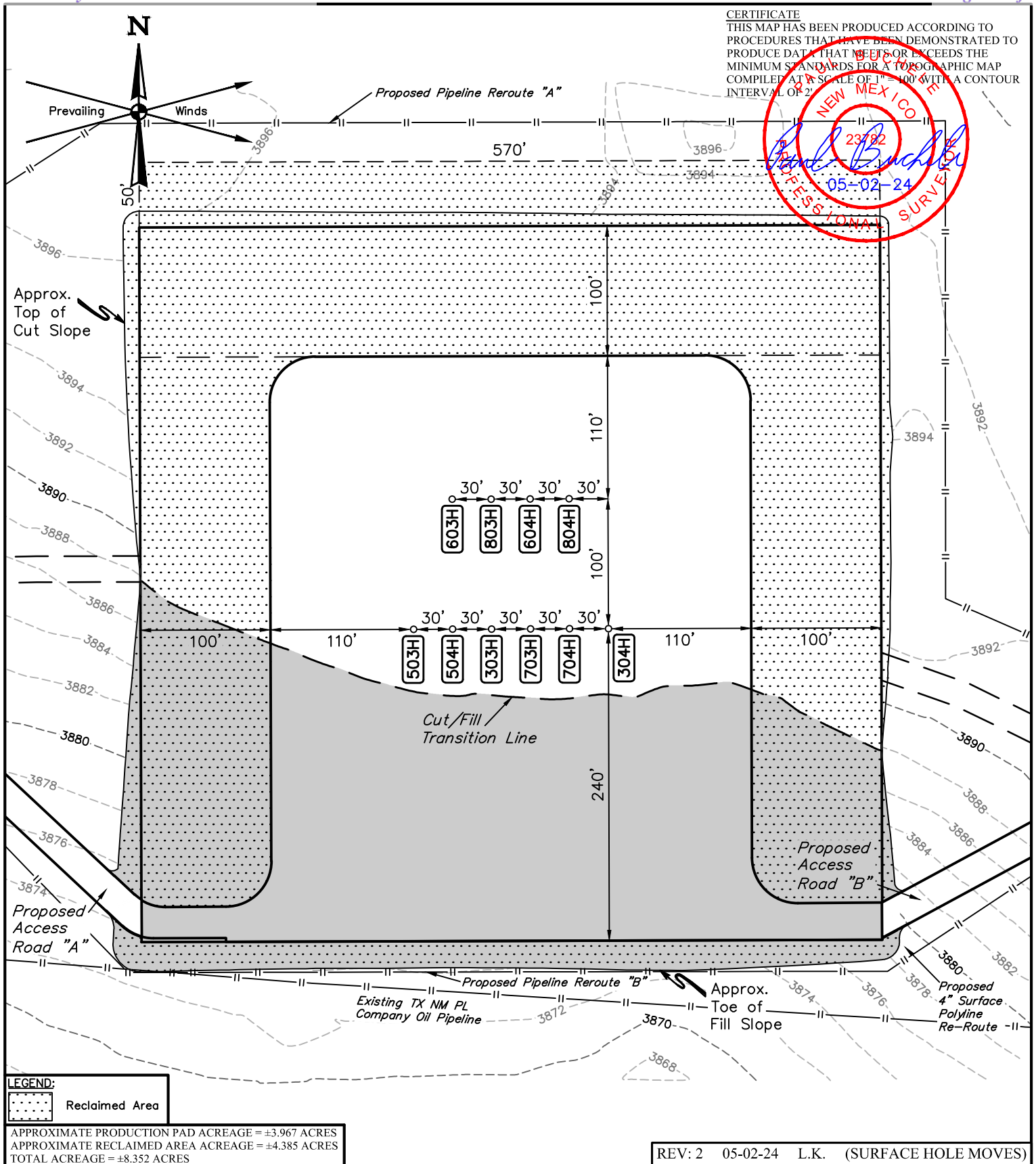
ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	L.M.W.	08-28-23	AS SHOWN
TYPICAL CROSS SECTIONS			



**NOTES:**

- Contours shown at 2' intervals.

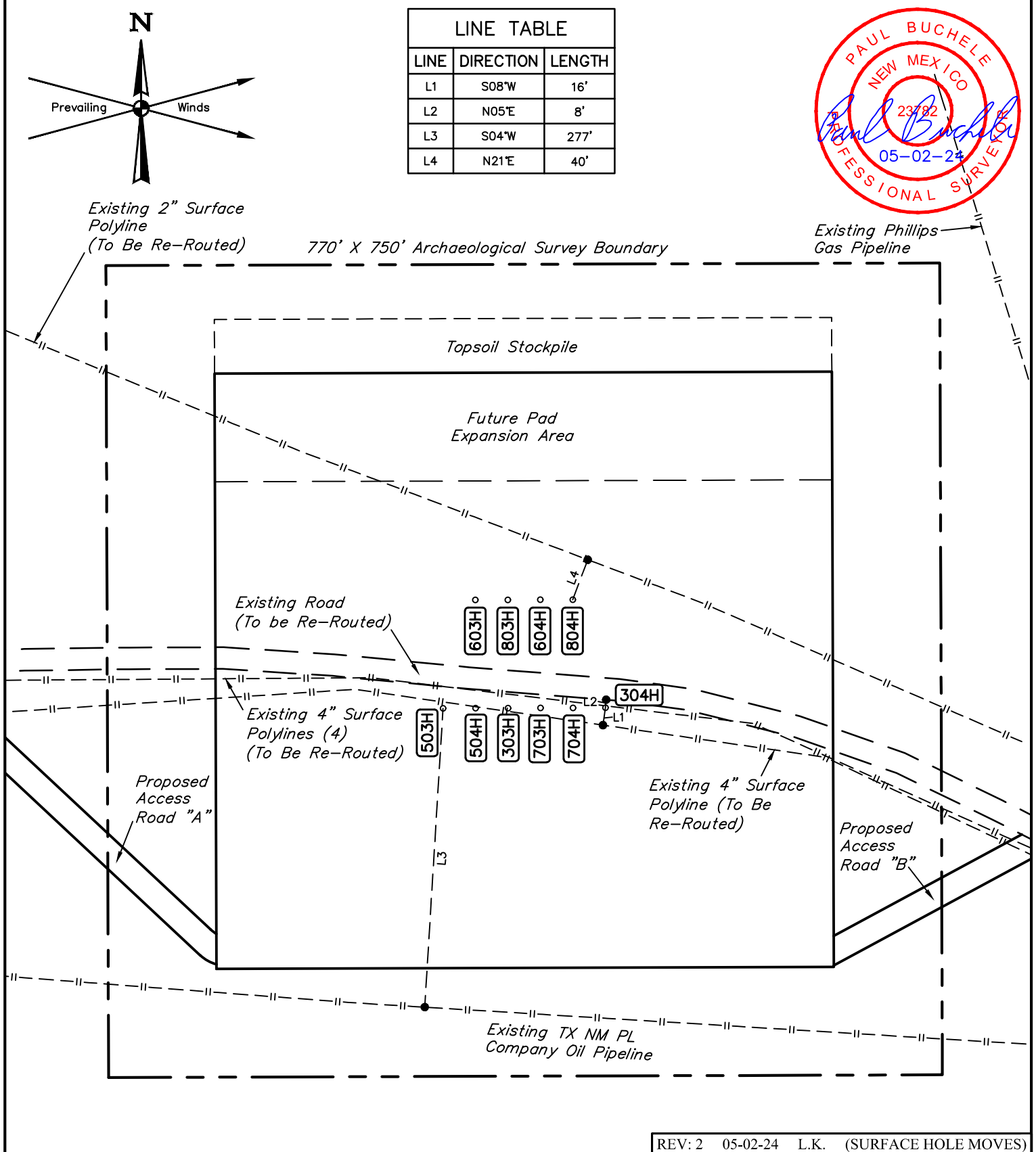
FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	L.M.W.	08-28-23	1" = 100'
RECLAMATION DIAGRAM			



REV: 2 05-02-24 L.K. (SURFACE HOLE MOVES)

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	L.M.W.	08-28-23	1" = 120'
ARCHAEOLOGICAL SURVEY BOUNDARY			

BEGINNING AT THE INTERSECTION OF U.S. HIGHWAY 62/180 AND STATE HIGHWAY 18 IN HOBBS, NEW MEXICO, PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION ALONG U.S. HIGHWAY 62/180 APPROXIMATELY 15.0 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 529 TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 5.1 MILES TO THE JUNCTION OF THIS ROAD AND PEARL VALLEY ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD "A" TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 376' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM U.S. HIGHWAY 62/180 AND STATE HIGHWAY 18 IN HOBBS, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.8 MILES.

REV: 1 09-08-23 T.J.S. (ROAD DESCRIPTION REVISION)

FRANKLIN MOUNTAIN ENERGY 3, LLC

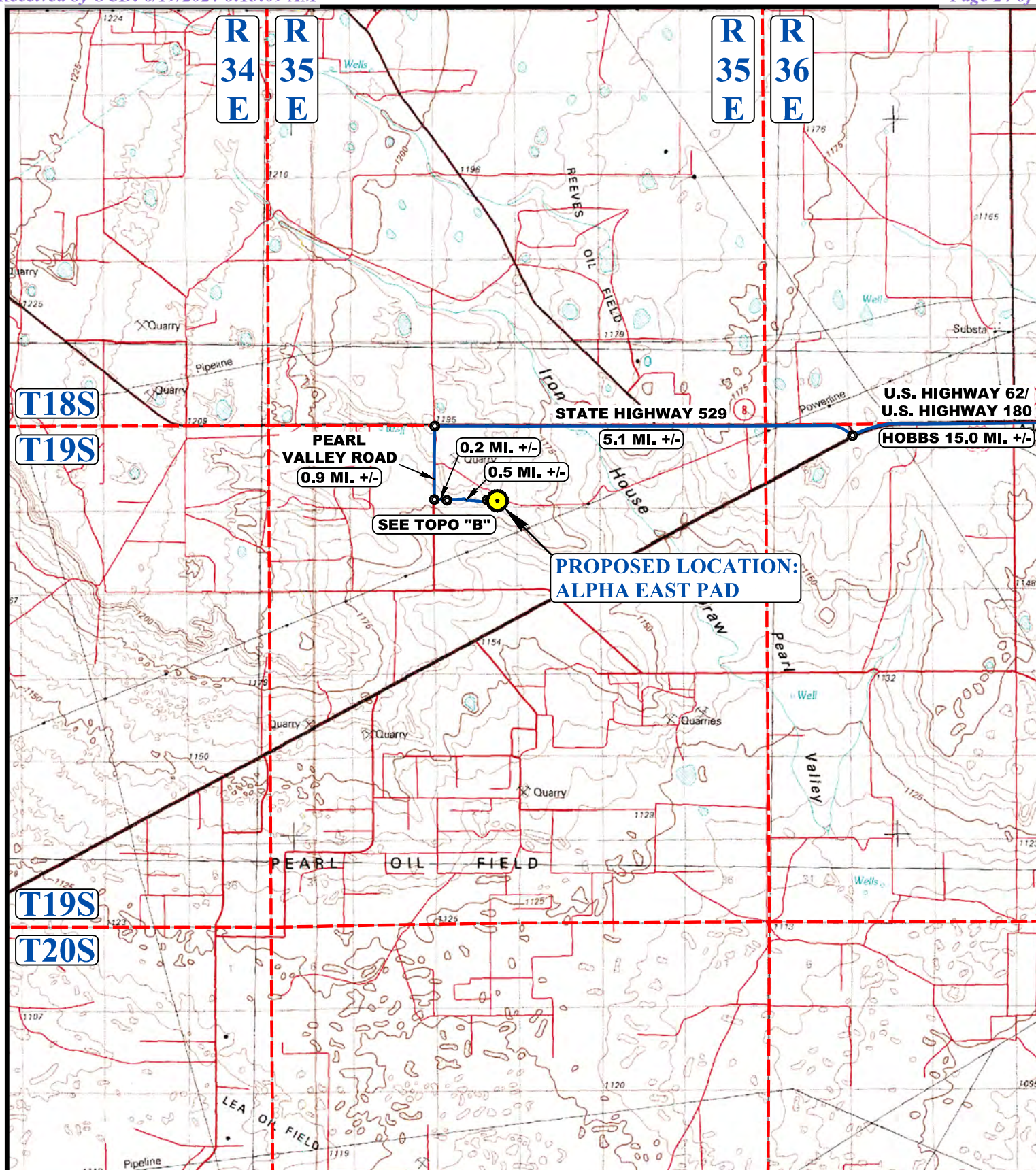
ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

UELS, LLC

Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.H., H.F.	08-23-23	
DRAWN BY	D.M.C.	08-28-23	
ROAD DESCRIPTION			



**LEGEND:**

PROPOSED LOCATION

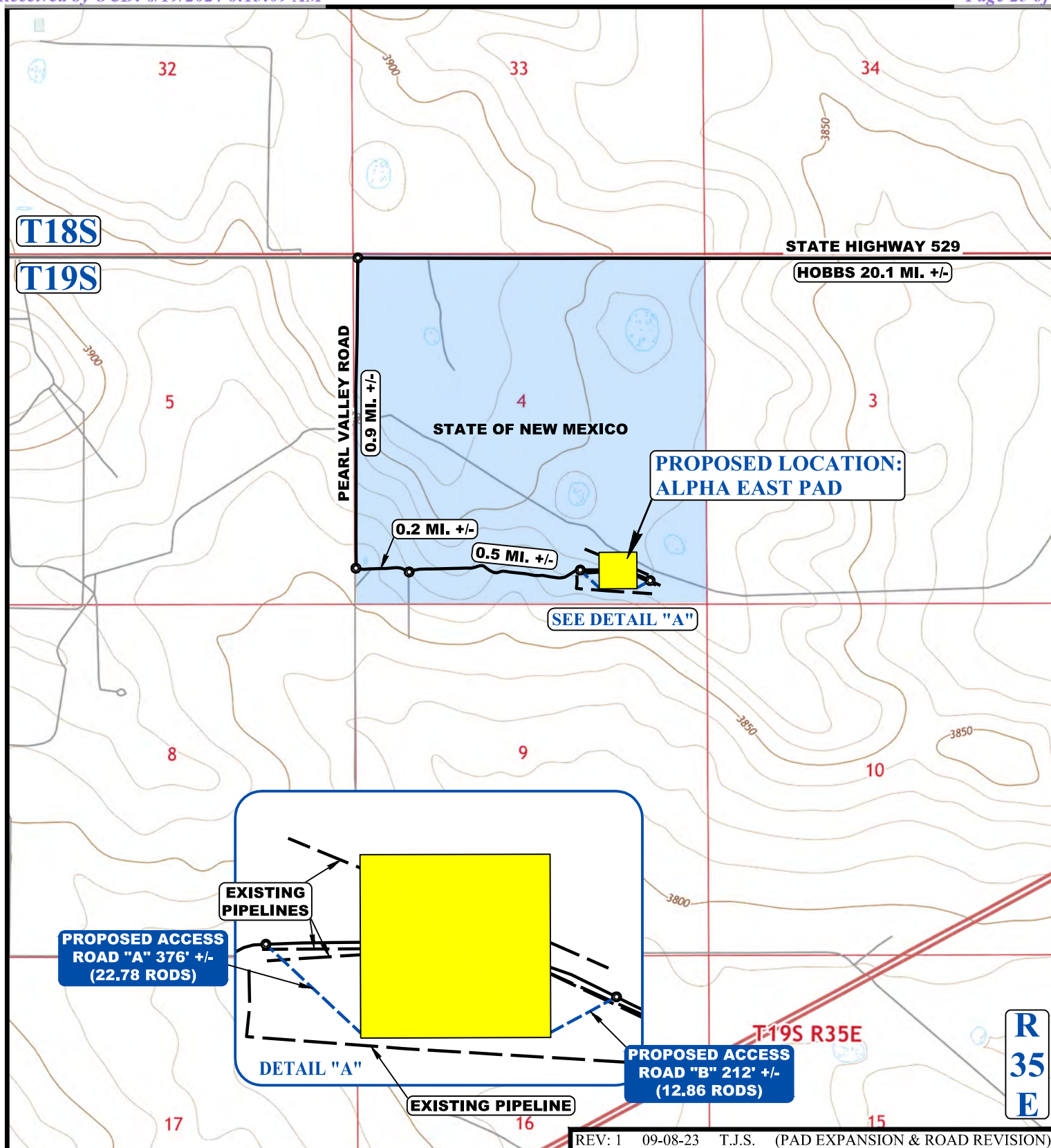


UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

**FRANKLIN MOUNTAIN ENERGY 3, LLC**

ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	D.M.C.	08-28-23	1 : 100,000
ACCESS ROAD MAP			TOPO A



REV: 1 09-08-23 T.J.S. (PAD EXPANSION & ROAD REVISION)

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- - - EXISTING PIPELINE
- - - PROPOSED PIPELINE
- - - PROPOSED POWER LINE

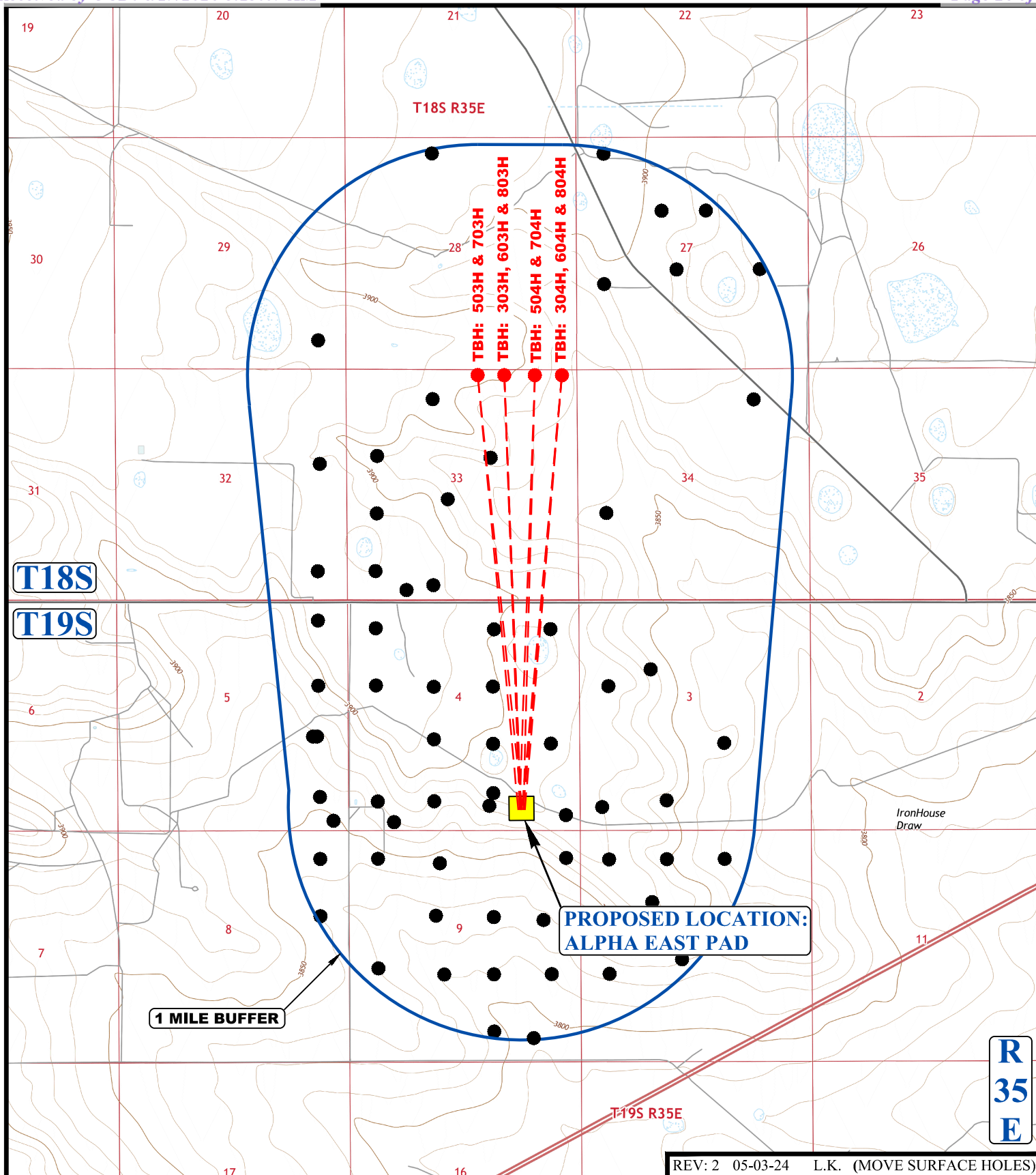


UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

**FRANKLIN MOUNTAIN ENERGY 3, LLC**

ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	D.M.C.	08-28-23	1 : 24,000
ACCESS ROAD MAP			TOPO B

**LEGEND:**

● EXISTING WELLS

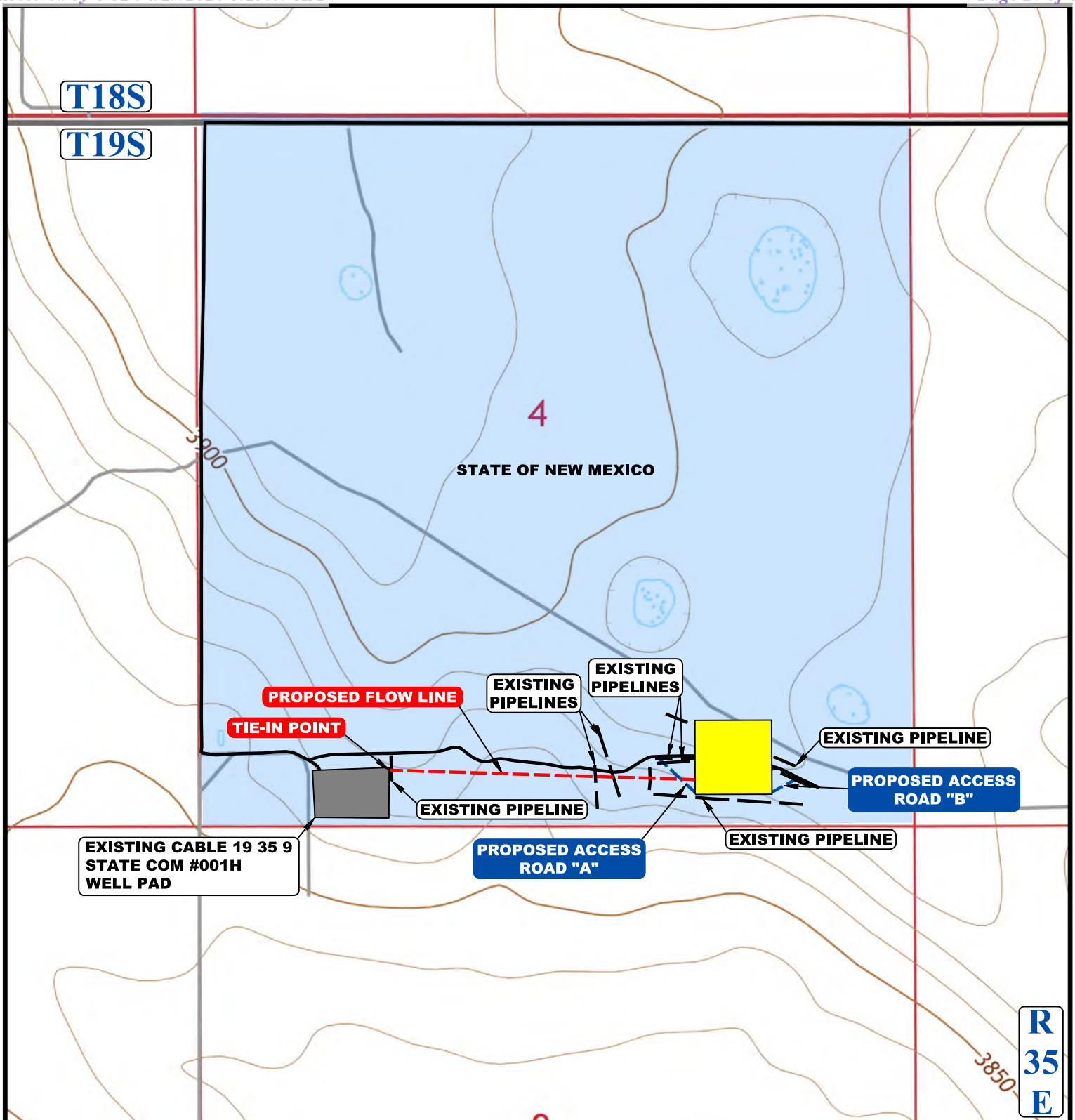
**FRANKLIN MOUNTAIN ENERGY 3, LLC**

ALPHA EAST PAD
S 1/2, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	D.M.C.	08-28-23	1 : 36,000
WELL PROXIMITY MAP			TOPO C



UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017



APPROXIMATE TOTAL FLOW LINE DISTANCE = 2271' +/-

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- - - EXISTING PIPELINE
- - - PROPOSED PIPELINE



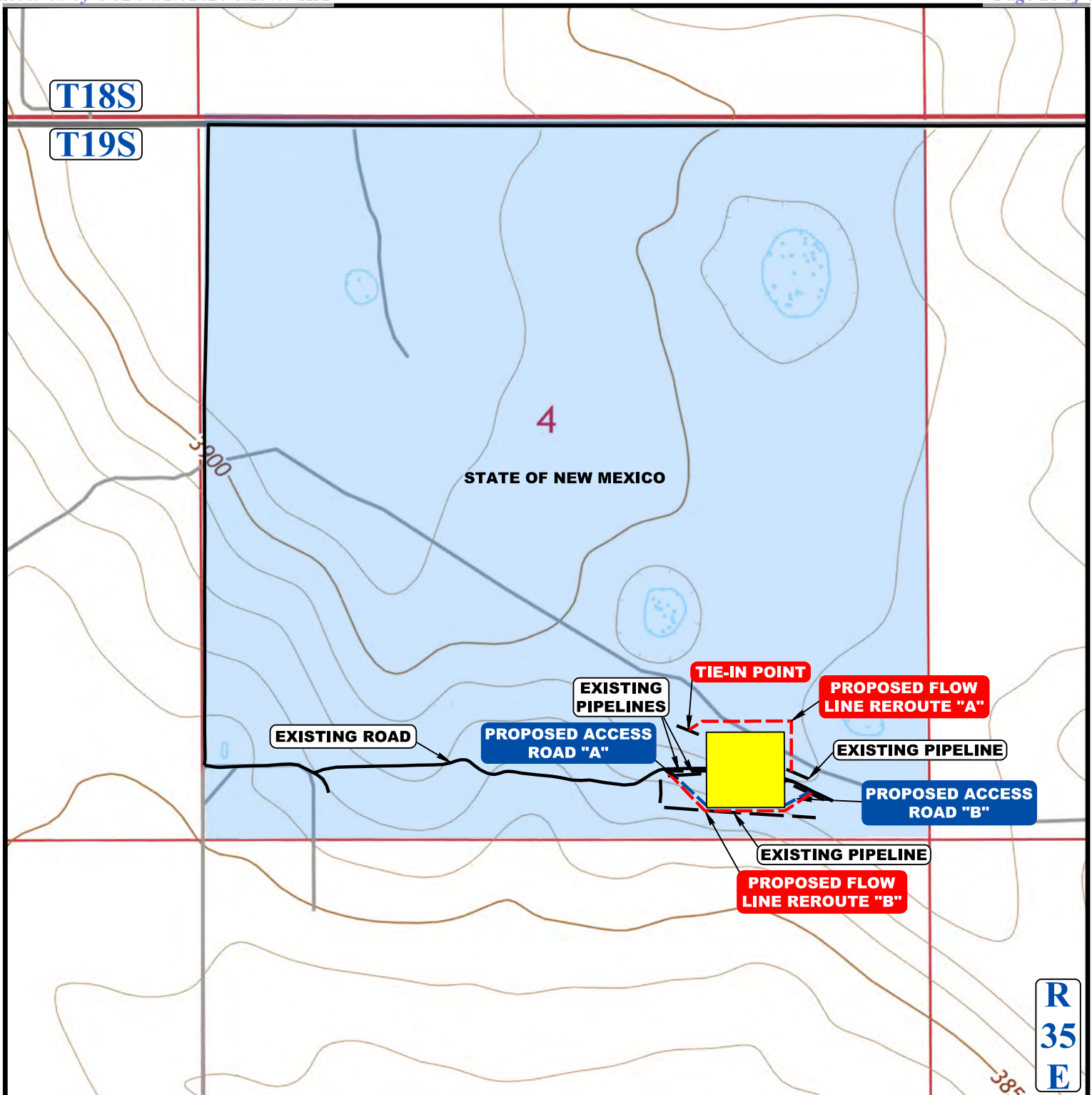
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	1 : 12,000
FLOW LINE MAP			TOPO D1



APPROXIMATE FLOW LINE REROUTE "A" DISTANCE = 1139' +/-

APPROXIMATE FLOW LINE REROUTE "B" DISTANCE = 1219' +/-

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- - - EXISTING PIPELINE
- - - PROPOSED PIPELINE



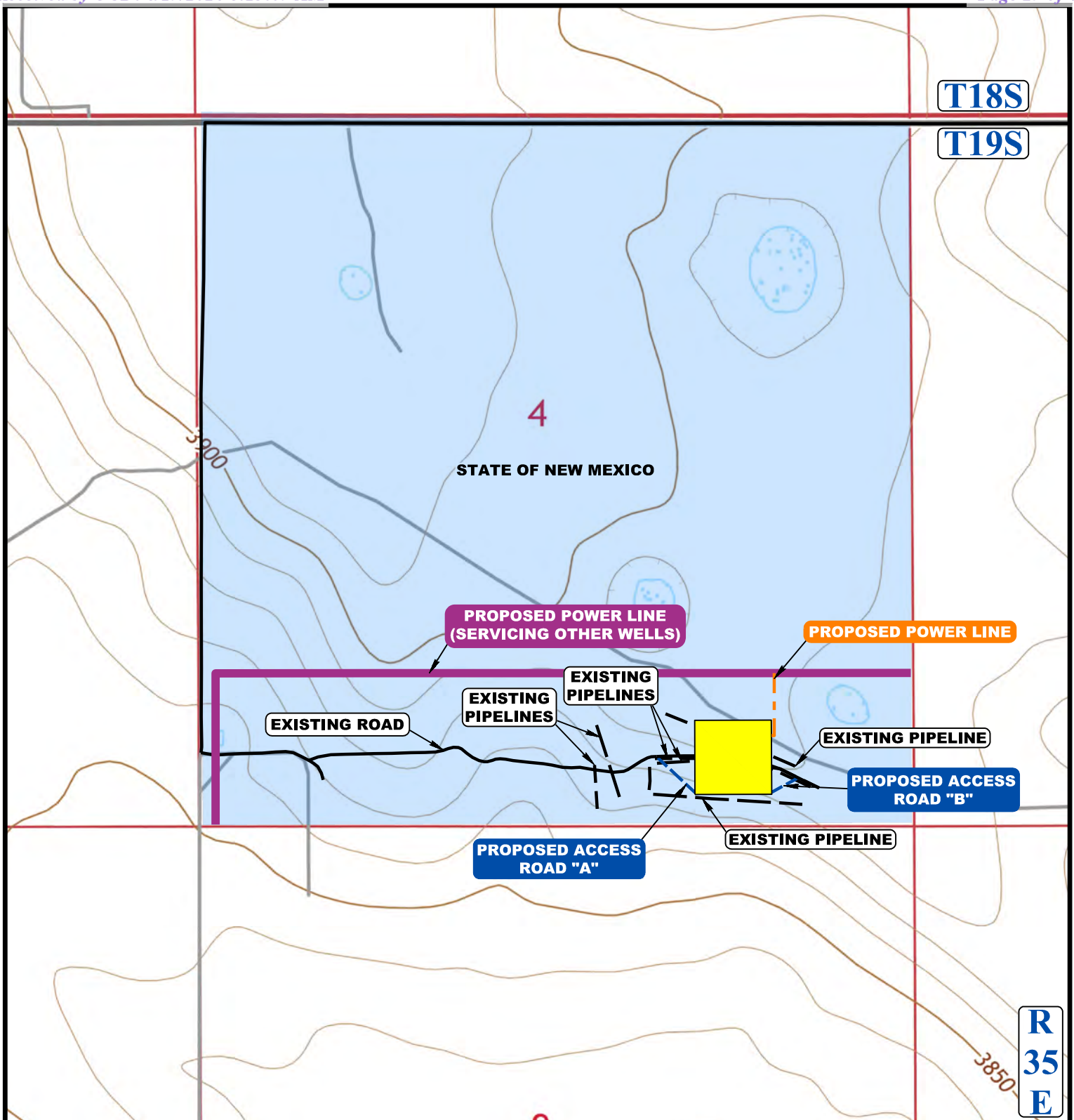
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	1 : 12,000
FLOW LINE REROUTE MAP		TOPO D2	



APPROXIMATE TOTAL POWER LINE DISTANCE = 484' +/-

NOTE: PARCEL DATA SHOWN HAS BEEN OBTAINED FROM VARIOUS SOURCES AND SHOULD BE USED FOR MAPPING, GRAPHIC AND PLANNING PURPOSES ONLY. NO WARRANTY IS MADE BY UINTAH ENGINEERING AND LAND SURVEYING (UELS) FOR ACCURACY OF THE PARCEL DATA.

LEGEND:

- EXISTING ROAD
- - - PROPOSED ROAD
- - - EXISTING PIPELINE
- - - PROPOSED POWER LINE
- - - PROPOSED POWER LINE (SERVICING OTHER WELLS)



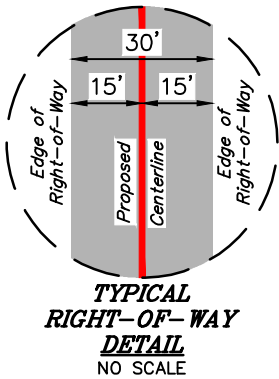
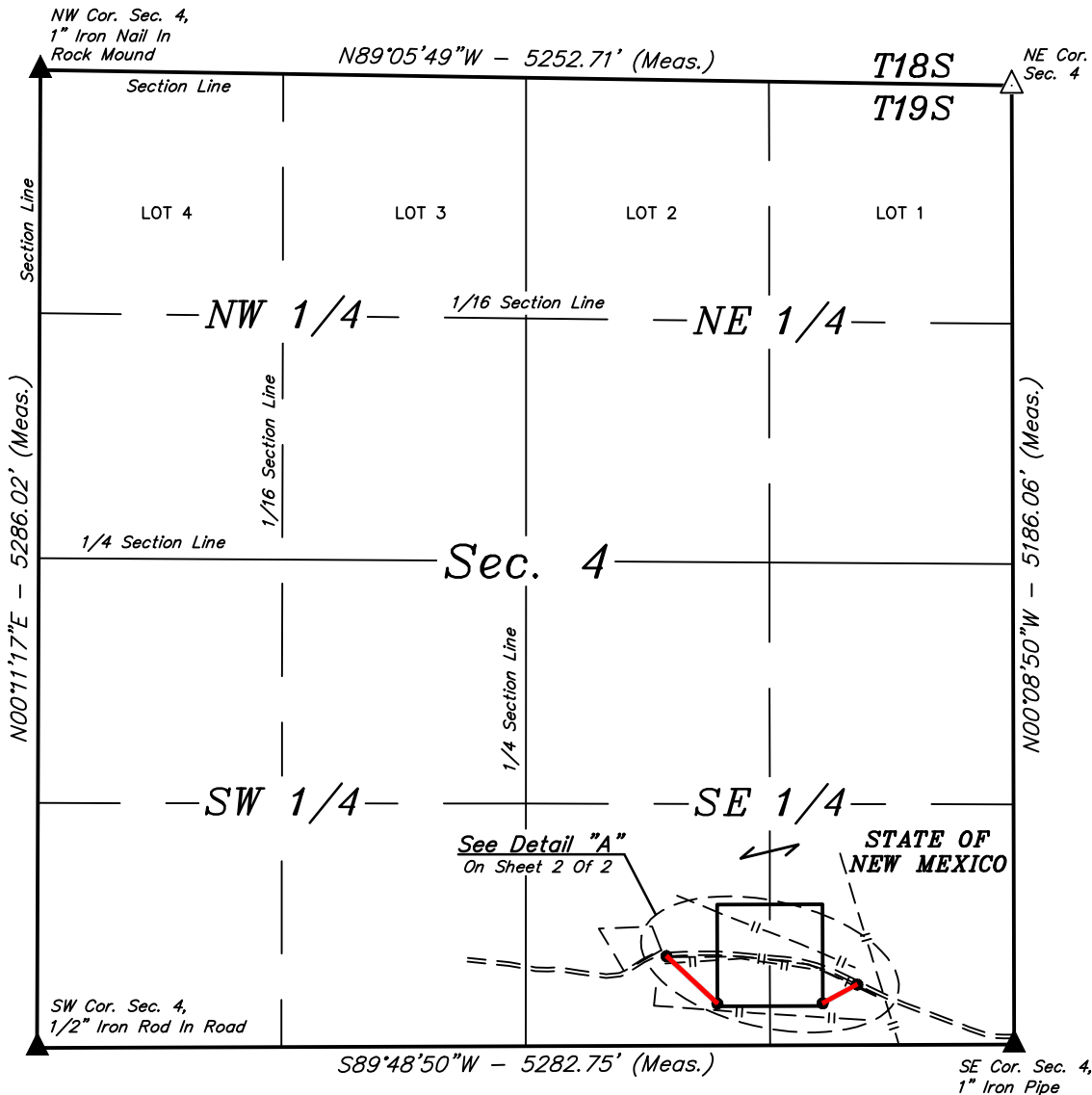
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
S 1/2 SE 1/4, SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	1 : 12,000
POWER LINE MAP		TOPO D3	



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S46°56'58"E	375.86'
L2	S61°37'36"W	212.26'

POINT OF BEGINNING "A" BEARS N75°43'27"W 1940.02' FROM THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION "A" BEARS N82°08'01"W 1620.70' FROM THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

POINT OF BEGINNING "B" BEARS N69°04'27"W 908.62' FROM THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION "B" BEARS N77°48'41"W 1059.33' FROM THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

ACREAGE / LENGTH TABLE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SW 1/4 SE 1/4)	375.86	22.78	0.259

ACREAGE / LENGTH TABLE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SE 1/4 SE 1/4)	212.26	12.86	0.146

CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



- ▲ = SECTION CORNERS LOCATED.
△ = SECTION CORNERS RE-ESTABLISHED.
(Not Set on Ground.)

- NOTES:
- The maximum grade of existing ground for the proposed access road "A" is 2.1±%.
 - The maximum grade of existing ground for the proposed access road "B" is 5.7±%.
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
 - Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



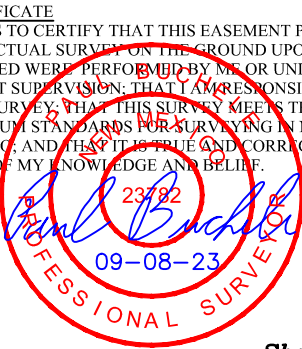
FRANKLIN MOUNTAIN ENERGY 3, LLC
ALPHA EAST PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	S.O.	08-24-23	1" = 1000'
FILE	F-591-A1		

ACCESS ROAD R-O-W

REV: 1 09-08-23 T.J.S. (ROAD "A" RE-ROUTE)

Sheet 1 of 2



ROAD "A" RIGHT-OF-WAY DESCRIPTION

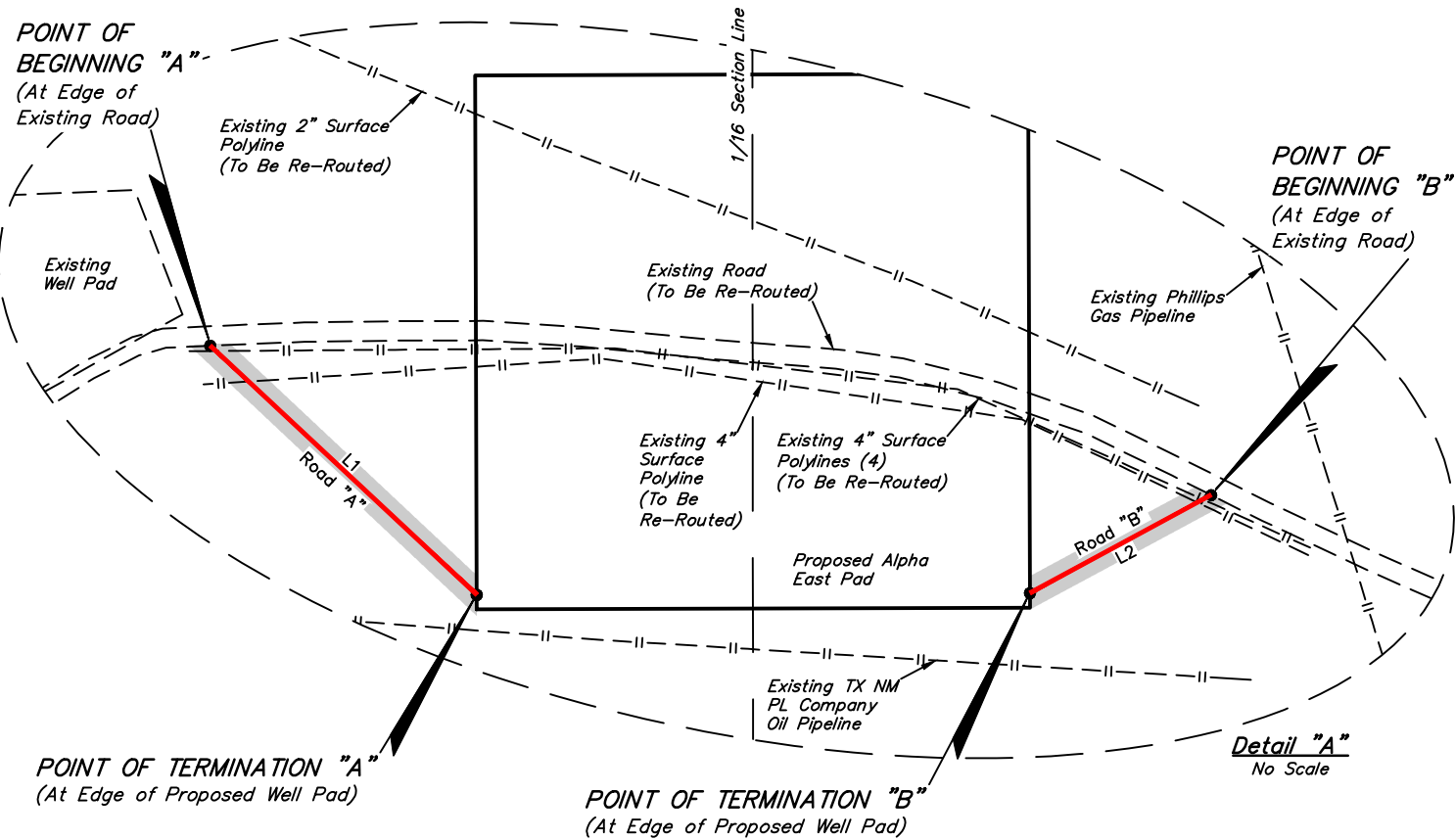
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 4 BEARS S89°48'50"W 5282.75, THENCE N75°43'27"W 1940.02' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE S46°56'58"E 375.86' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS N82°08'01"W 1620.70' FROM THE SOUTHEAST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.259 ACRES MORE OR LESS.

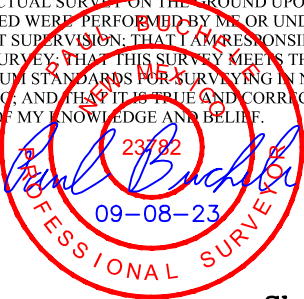
ROAD "B" RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 4 BEARS S89°48'50"W 5282.75, THENCE N69°04'27"W 908.62' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE S61°37'36"W 212.26' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS N77°48'41"W 1059.33' FROM THE SOUTHEAST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.146 ACRES MORE OR LESS.



CERTIFICATE
THIS IS TO CERTIFY THAT THIS EASEMENT PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Sheet 2 of 2

REV: 1 09-08-23 T.J.S. (ROAD "A" RE-ROUTE)

- NOTES:
- The maximum grade of existing ground for the proposed access road "A" is 2.1±%.
 - The maximum grade of existing ground for the proposed access road "B" is 5.7±%.
 - Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of 103°53'00" (NAD 83)
 - Section breakdown information for this plat may be obtained from Uintah Engineering & Land Surveying.



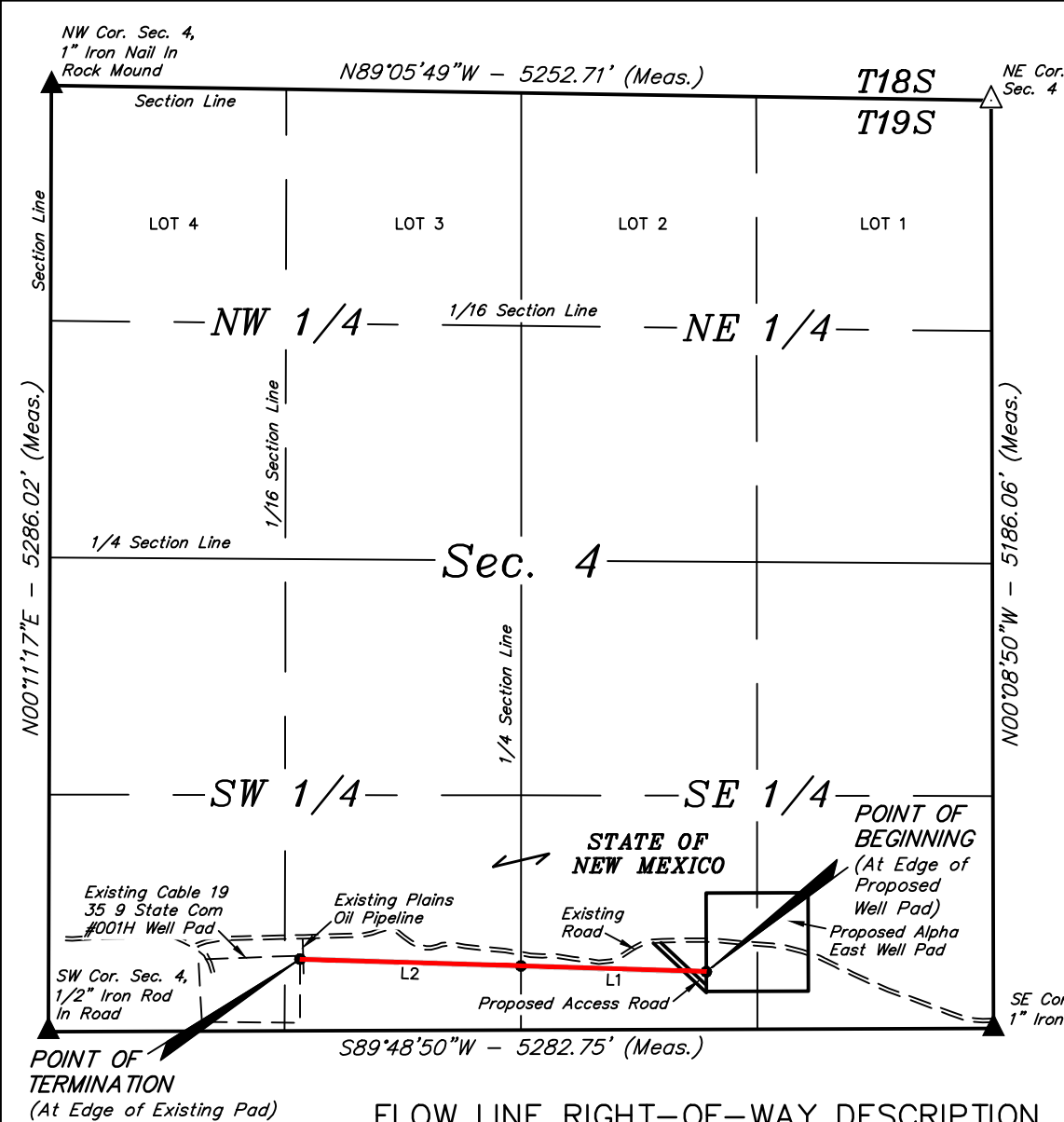
FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

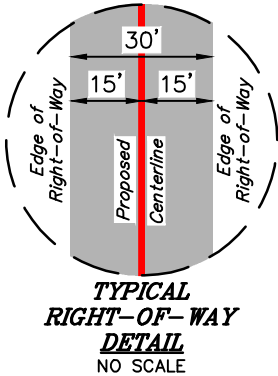
SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	S.O.	08-24-23	N/A
FILE	F-591-A2		
ACCESS ROAD R-O-W			



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N88°14'07\"W	1035.95'
L2	N88°14'07\"W	1235.30'



FLOW LINE RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

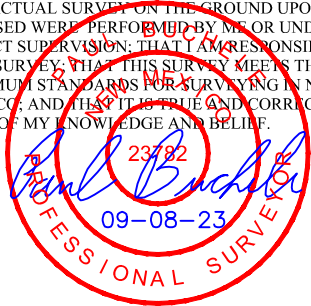
COMMENCING AT THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 4 BEARS S89°48'50\"W 5282.75', THENCE N78°49'15\"W 1636.82' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE N88°14'07\"W 1035.95' TO A POINT ON THE WEST LINE OF THE SW 1/4 SE 1/4 OF SAID SECTION 4; THENCE CONTINUING N88°14'07\"W 1235.30' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS N73°57'37\"E 1463.77' FROM THE SOUTHWEST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 1.564 ACRES MORE OR LESS.

POINT OF BEGINNING BEARS N78°49'15\"W 1636.82' FROM THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION BEARS N73°57'37\"E 1463.77' FROM THE SOUTHWEST CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

ACREAGE / LENGTH TABLE			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SW 1/4 SE 1/4)	1035.95	62.78	0.713
SEC. 4 (SE 1/4 SW 1/4)	1235.30	74.87	0.851
TOTAL	2271.25	137.65	1.564

CERTIFICATE
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- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

- NOTES:
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FRANKLIN MOUNTAIN ENERGY 3, LLC

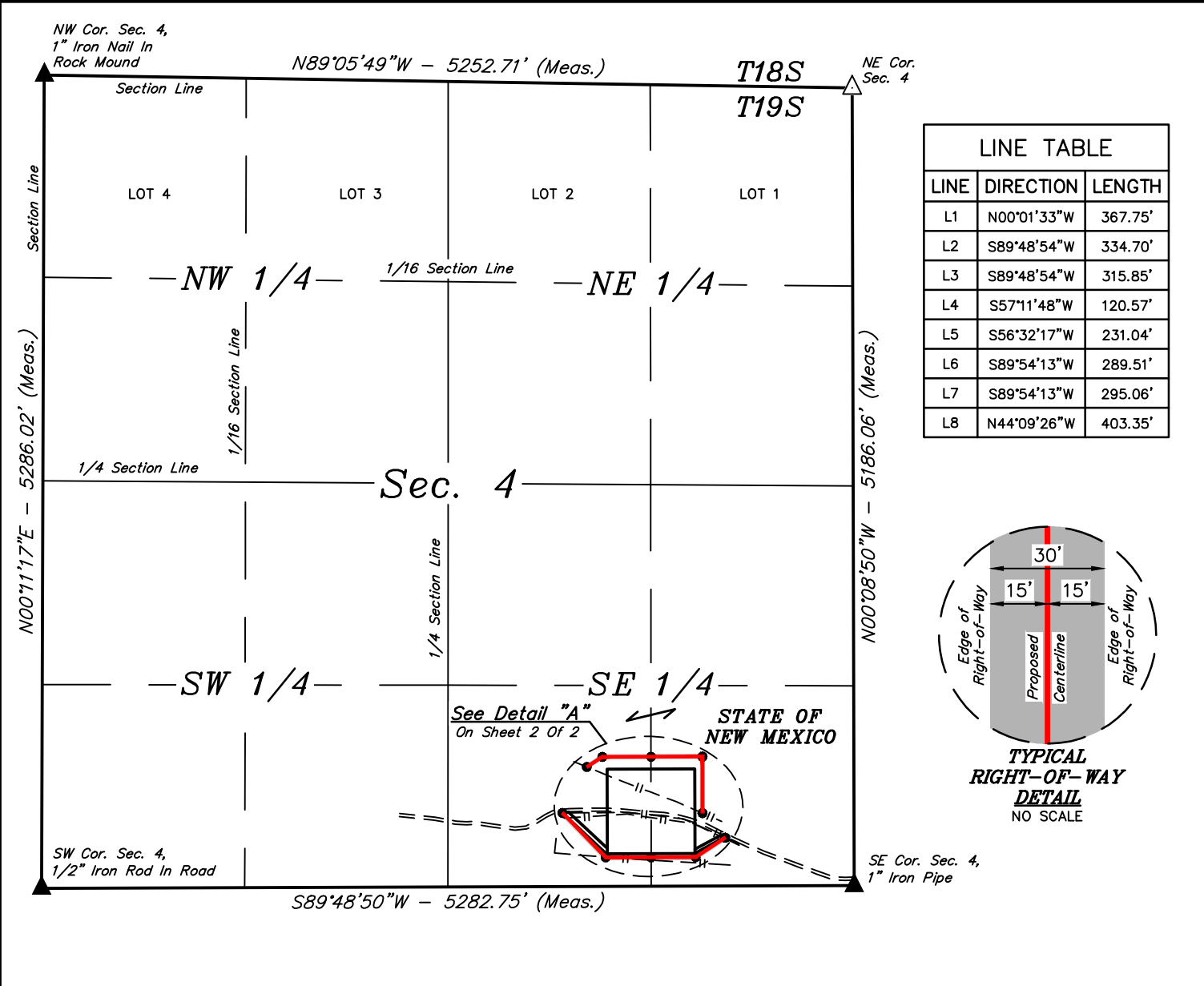
ALPHA EAST PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	1" = 1000'
FILE	F-591-A1		

FLOW LINE R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°01'33"W	367.75'
L2	S89°48'54"W	334.70'
L3	S89°48'54"W	315.85'
L4	S57°11'48"W	120.57'
L5	S56°32'17"W	231.04'
L6	S89°54'13"W	289.51'
L7	S89°54'13"W	295.06'
L8	N44°09'26"W	403.35'

POINT OF BEGINNING "A" BEARS N64°28'48"W
1093.41' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

POINT OF BEGINNING "B" BEARS N69°36'20"W
894.71' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

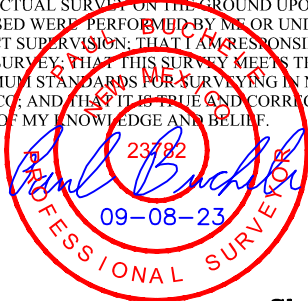
POINT OF TERMINATION "A" BEARS N66°04'34"W
1902.21' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION "B" BEARS N76°00'17"W
1954.96' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

ACREAGE / LENGTH TABLE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SE 1/4 SE 1/4)	702.45	42.57	0.484
SEC. 4 (SW 1/4 SE 1/4)	436.42	26.45	0.301
TOTAL	1138.87	69.02	0.785

ACREAGE / LENGTH TABLE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SE 1/4 SE 1/4)	520.55	31.55	0.359
SEC. 4 (SW 1/4 SE 1/4)	698.41	42.33	0.481
TOTAL	1218.96	73.88	0.840

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FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	1" = 1000'
FILE	F-591-A1		

FLOW LINE REROUTE R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Page 34 of 45

Received by OCD: 6/19/2024 8:13:09 AM

Released to Imaging: 6/21/2024 9:11:23 AM

FLOW LINE REROUTE "A" RIGHT-OF-WAY DESCRIPTION

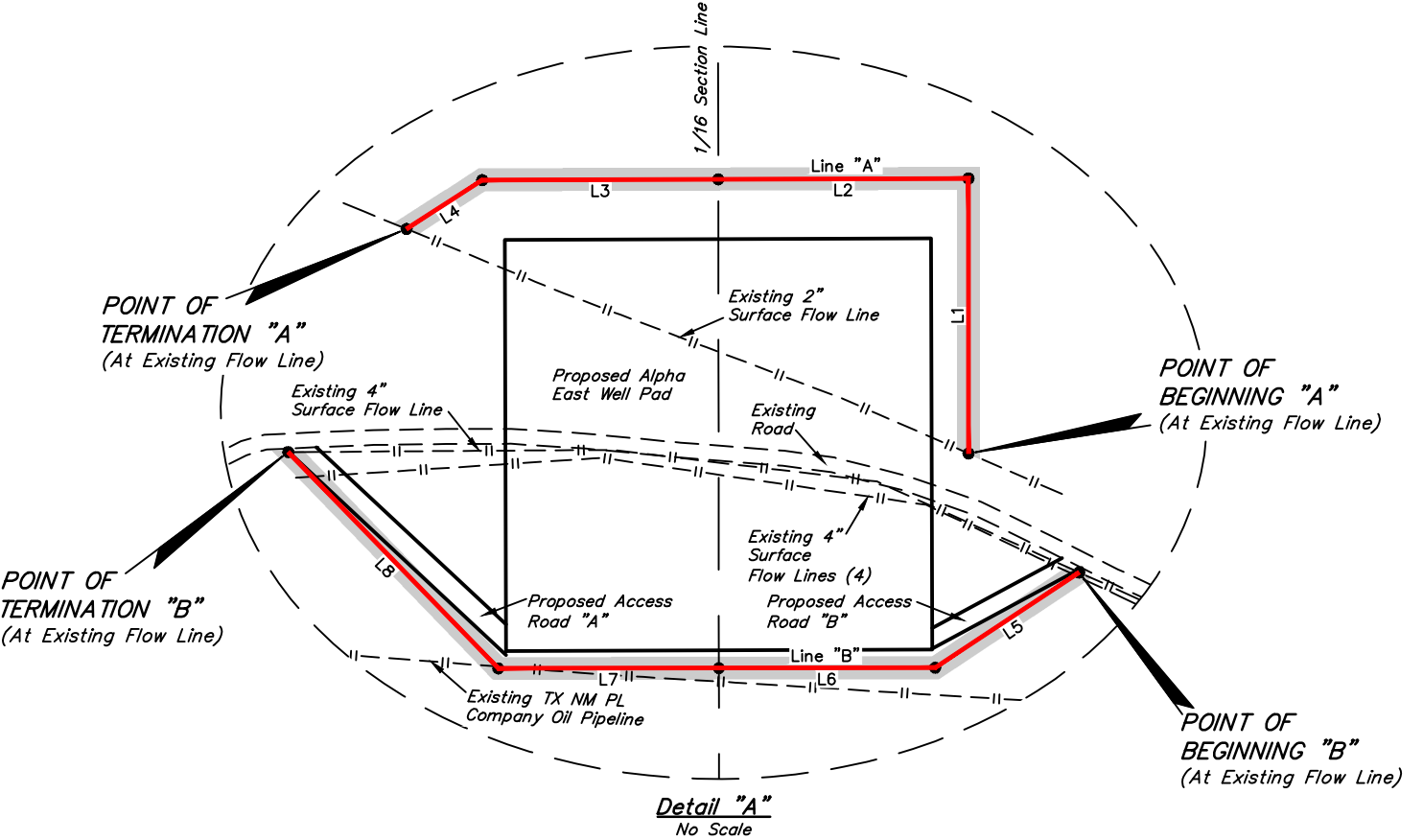
A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 4 BEARS S89°48'50"W 5282.75', THENCE N64°28'48"W 1093.41' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE N00°01'33"W 367.75'; THENCE S89°48'54"W 334.70' TO A POINT ON THE WEST LINE OF THE SE 1/4 SE 1/4 OF SAID SECTION 4; THENCE CONTINUING S89°48'54"W 315.85'; THENCE S57°11'48"W 120.57' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS N66°04'34"W 1902.21' FROM THE SOUTHEAST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.785 ACRES MORE OR LESS.

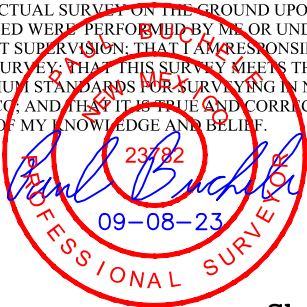
FLOW LINE REROUTE "B" RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

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Sheet 2 of 2

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FRANKLIN MOUNTAIN ENERGY 3, LLC

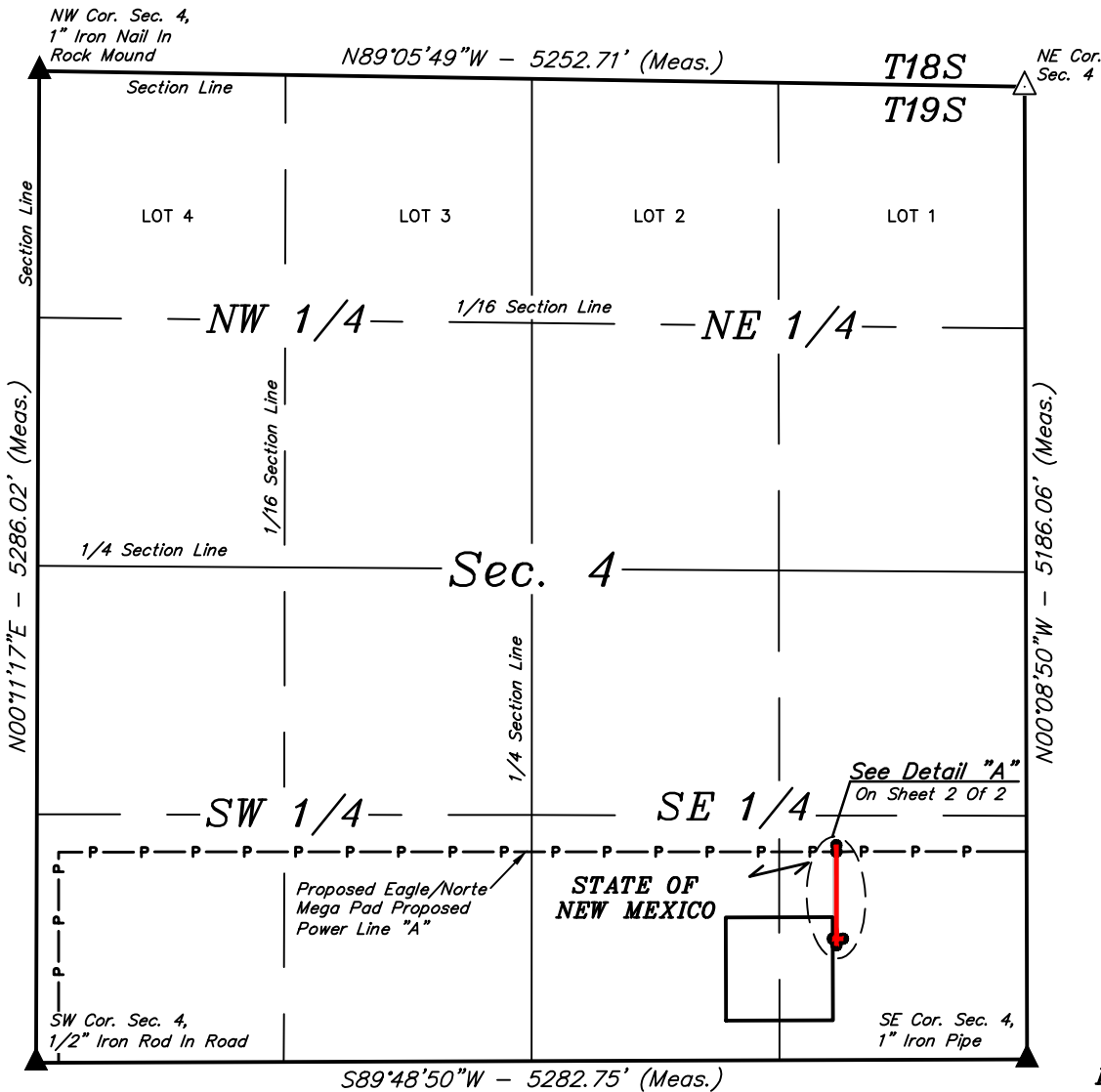
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LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	N/A
FILE	F-591-A2		

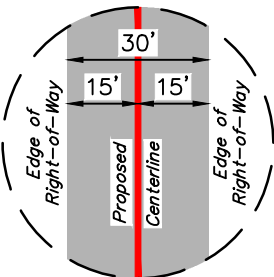
FLOW LINE REROUTE R-O-W



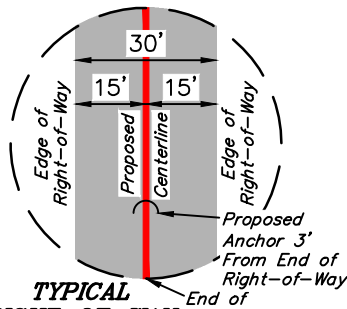
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S00°01'33"E	463.98'
L2	S89°48'54"W	20.00'
L3	N00°01'33"W	35.00'
L4	S90°00'00"E	35.00'
L5	S00°01'33"E	35.00'



TYPICAL
RIGHT-OF-WAY
DETAIL FOR L1-L2
NO SCALE



TYPICAL
RIGHT-OF-WAY
DETAIL L3-L5
NO SCALE

POINT OF BEGINNING "A" BEARS N42°33'22"W
1503.77' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION "A" BEARS
N58°10'05"W 1220.36' FROM THE SOUTHEAST
CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

POINT OF BEGINNING "B" BEARS N42°33'22"W
1503.77' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION "B" BEARS
N41°40'12"W 1529.75' FROM THE SOUTHEAST
CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

POINT OF BEGINNING "C" BEARS N57°39'47"W
1203.44' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION "C" BEARS
N56°44'58"W 1174.02' FROM THE SOUTHEAST
CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

POINT OF BEGINNING "D" BEARS N57°39'47"W
1203.44' FROM THE SOUTHEAST CORNER OF
SECTION 4, T19S, R35E, N.M.P.M.

POINT OF TERMINATION "D" BEARS
N59°05'33"W 1185.08' FROM THE SOUTHEAST
CORNER OF SECTION 4, T19S, R35E, N.M.P.M.

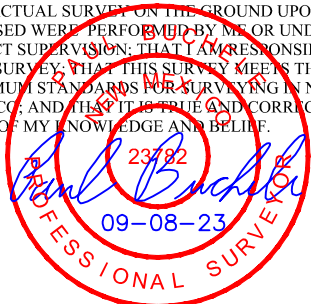
ACREAGE / LENGTH TABLE "A"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SE 1/4 SE 1/4)	483.98	29.33	0.333

ACREAGE / LENGTH TABLE "C"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SE 1/4 SE 1/4)	35.00	2.12	0.024

ACREAGE / LENGTH TABLE "B"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SE 1/4 SE 1/4)	35.00	2.12	0.024

ACREAGE / LENGTH TABLE "D"			
LOCATION	FEET	RODS	ACRES
SEC. 4 (SE 1/4 SE 1/4)	35.00	2.12	0.024

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FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	1" = 1000'
FILE	F-591-A1		

POWER LINE R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

POWER LINE "A" RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

COMMENCING AT THE SOUTHEAST CORNER OF SECTION 4, T19S, R35E, N.M.P.M., FROM WHICH THE SOUTHWEST CORNER OF SAID SECTION 4 BEARS S89°48'50"W 5282.75', THENCE N42°33'22"W 1503.77' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF BEGINNING; THENCE S00°01'33"E 463.98'; THENCE S89°48'54"W 20.00' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 4 AND THE POINT OF TERMINATION, WHICH BEARS N58°10'05"W 1220.36' FROM THE SOUTHEAST CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. CONTAINS 0.333 ACRES MORE OR LESS.

POWER LINE "B" RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

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POWER LINE "C" RIGHT-OF-WAY DESCRIPTION

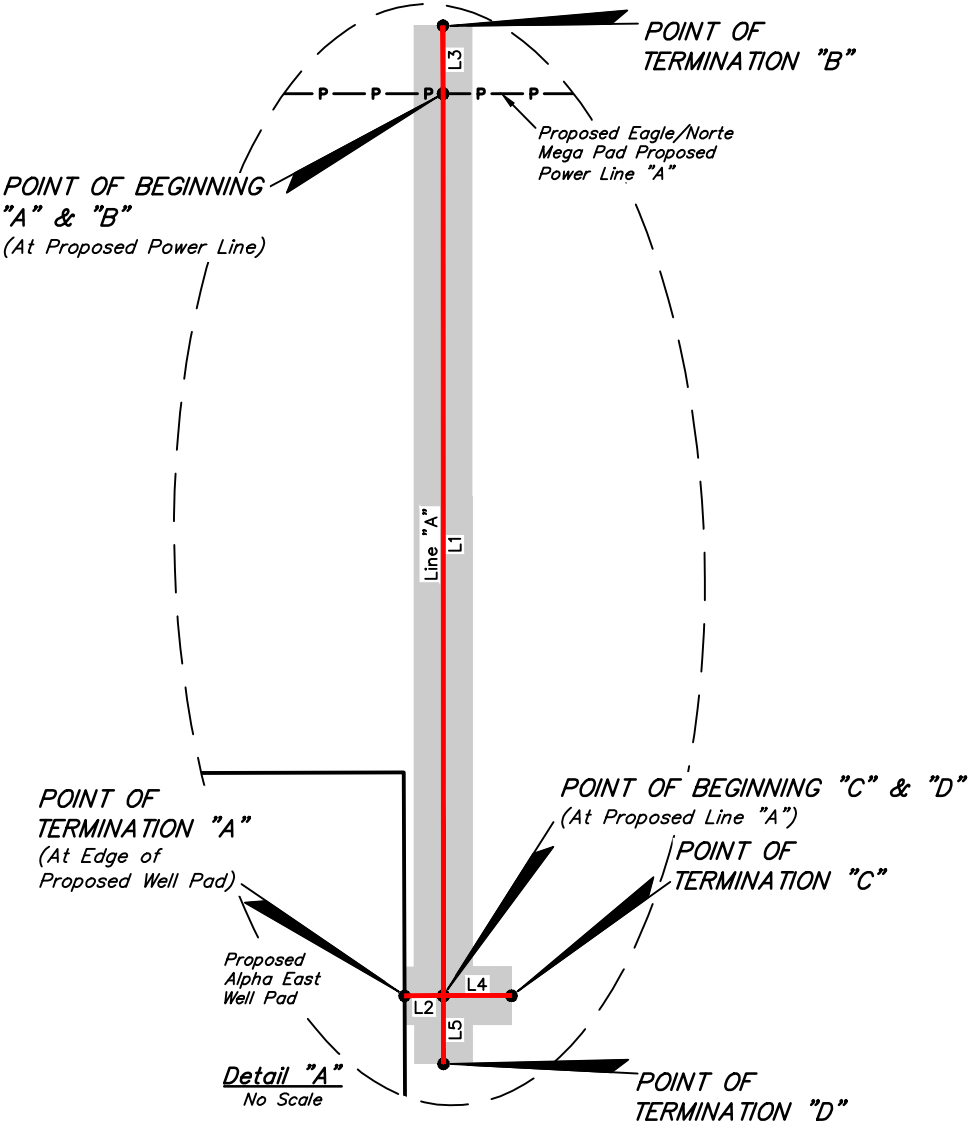
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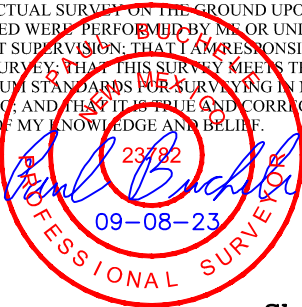
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Sheet 2 of 2

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FRANKLIN MOUNTAIN ENERGY 3, LLC

ALPHA EAST PAD
ON STATE OF NEW MEXICO LANDS IN
SECTION 4, T19S, R35E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	C.H., H.F.	08-23-23	SCALE
DRAWN BY	T.J.S.	09-08-23	N/A
FILE	F-591-A2		

POWER LINE R-O-W



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



Franklin Mountain Energy LLC

PV_Lea County, NM(N83-NME3001)

Alpha East

B01_Alpha State Com 503H

503H

Plan: APD-Rev02

Standard Planning Report

21 May, 2024



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well B01_Alpha State Com 503H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3888+30 @ 3918.00usft
Project:	PV_Lea County, NM(N83-NME3001)	MD Reference:	3888+30 @ 3918.00usft
Site:	Alpha East	North Reference:	Grid
Well:	B01_Alpha State Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	503H		
Design:	APD-Rev02		

Project	PV_Lea County, NM(N83-NME3001)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Alpha East			
Site Position:		Northing:	613,547.68 usft	Latitude:	32.68363169
From:	Map	Easting:	810,694.70 usft	Longitude:	-103.45786190
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well	B01_Alpha State Com 503H					
Well Position	+N/-S	0.00 usft	Northing:	613,546.56 usft	Latitude:	32.68363201
	+E/-W	0.00 usft	Easting:	810,544.73 usft	Longitude:	-103.45834932
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,888.00 usft	
Grid Convergence:	0.47 °					

Wellbore	503H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/20/2024	6.18	60.23	47,467.14261795

Design	APD-Rev02				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.50	

Plan Survey Tool Program	Date	5/21/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,165.10 APD-Rev02 (503H)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-Si		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,904.76	12.07	245.41	2,898.82	-35.15	-76.80	1.50	1.50	0.00	245.41	
6,793.10	12.07	245.41	6,701.18	-373.53	-816.22	0.00	0.00	0.00	0.00	
7,597.86	0.00	0.00	7,500.00	-408.68	-893.02	1.50	-1.50	0.00	180.00	
9,474.90	0.00	0.00	9,377.04	-408.68	-893.02	0.00	0.00	0.00	0.00	
10,374.90	90.00	359.57	9,950.00	164.26	-897.35	10.00	10.00	-0.05	359.57	
20,165.10	90.00	359.57	9,950.00	9,954.18	-971.32	0.00	0.00	0.00	0.00	02-PBHL(Alpha-503H)



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well B01_Alpha State Com 503H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3888+30 @ 3918.00usft
Project:	PV_Lea County, NM(N83-NME3001)	MD Reference:	3888+30 @ 3918.00usft
Site:	Alpha East	North Reference:	Grid
Well:	B01_Alpha State Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	503H		
Design:	APD-Rev02		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00
Cenozoic Alluvium (surface)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,949.00	0.00	0.00	1,949.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,070.00	0.00	0.00	2,070.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	1.50	245.41	2,199.99	-0.54	-1.19	-0.53	1.50	1.50	0.00
2,300.00	3.00	245.41	2,299.91	-2.18	-4.76	-2.14	1.50	1.50	0.00
2,400.00	4.50	245.41	2,399.69	-4.90	-10.71	-4.81	1.50	1.50	0.00
2,500.00	6.00	245.41	2,499.27	-8.71	-19.03	-8.54	1.50	1.50	0.00
2,600.00	7.50	245.41	2,598.57	-13.60	-29.71	-13.34	1.50	1.50	0.00
2,700.00	9.00	245.41	2,697.54	-19.57	-42.76	-19.20	1.50	1.50	0.00
2,800.00	10.50	245.41	2,796.09	-26.62	-58.16	-26.11	1.50	1.50	0.00
2,904.76	12.07	245.41	2,898.82	-35.15	-76.80	-34.48	1.50	1.50	0.00
3,000.00	12.07	245.41	2,991.95	-43.44	-94.91	-42.61	0.00	0.00	0.00
3,100.00	12.07	245.41	3,089.74	-52.14	-113.93	-51.14	0.00	0.00	0.00
3,177.98	12.07	245.41	3,166.00	-58.92	-128.76	-57.80	0.00	0.00	0.00
Base Salt									
3,200.00	12.07	245.41	3,187.53	-60.84	-132.95	-59.68	0.00	0.00	0.00
3,300.00	12.07	245.41	3,285.32	-69.54	-151.96	-68.21	0.00	0.00	0.00
3,400.00	12.07	245.41	3,383.11	-78.25	-170.98	-76.75	0.00	0.00	0.00
3,415.23	12.07	245.41	3,398.00	-79.57	-173.87	-78.05	0.00	0.00	0.00
Yates									
3,500.00	12.07	245.41	3,480.90	-86.95	-189.99	-85.29	0.00	0.00	0.00
3,600.00	12.07	245.41	3,578.69	-95.65	-209.01	-93.82	0.00	0.00	0.00
3,700.00	12.07	245.41	3,676.48	-104.35	-228.03	-102.36	0.00	0.00	0.00
3,800.00	12.07	245.41	3,774.26	-113.06	-247.04	-110.90	0.00	0.00	0.00
3,900.00	12.07	245.41	3,872.05	-121.76	-266.06	-119.43	0.00	0.00	0.00
3,915.29	12.07	245.41	3,887.00	-123.09	-268.97	-120.74	0.00	0.00	0.00
Seven Rivers									
4,000.00	12.07	245.41	3,969.84	-130.46	-285.08	-127.97	0.00	0.00	0.00



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well B01_Alpha State Com 503H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3888+30 @ 3918.00usft
Project:	PV_Lea County, NM(N83-NME3001)	MD Reference:	3888+30 @ 3918.00usft
Site:	Alpha East	North Reference:	Grid
Well:	B01_Alpha State Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	503H		
Design:	APD-Rev02		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,100.00	12.07	245.41	4,067.63	-139.16	-304.09	-136.51	0.00	0.00	0.00
4,200.00	12.07	245.41	4,165.42	-147.87	-323.11	-145.04	0.00	0.00	0.00
4,300.00	12.07	245.41	4,263.21	-156.57	-342.12	-153.58	0.00	0.00	0.00
4,400.00	12.07	245.41	4,361.00	-165.27	-361.14	-162.11	0.00	0.00	0.00
4,500.00	12.07	245.41	4,458.79	-173.97	-380.16	-170.65	0.00	0.00	0.00
4,600.00	12.07	245.41	4,556.57	-182.68	-399.17	-179.19	0.00	0.00	0.00
4,700.00	12.07	245.41	4,654.36	-191.38	-418.19	-187.72	0.00	0.00	0.00
4,706.79	12.07	245.41	4,661.00	-191.97	-419.48	-188.30	0.00	0.00	0.00
Queen									
4,800.00	12.07	245.41	4,752.15	-200.08	-437.21	-196.26	0.00	0.00	0.00
4,900.00	12.07	245.41	4,849.94	-208.78	-456.22	-204.80	0.00	0.00	0.00
5,000.00	12.07	245.41	4,947.73	-217.49	-475.24	-213.33	0.00	0.00	0.00
5,100.00	12.07	245.41	5,045.52	-226.19	-494.25	-221.87	0.00	0.00	0.00
5,200.00	12.07	245.41	5,143.31	-234.89	-513.27	-230.40	0.00	0.00	0.00
5,300.00	12.07	245.41	5,241.10	-243.59	-532.29	-238.94	0.00	0.00	0.00
5,400.00	12.07	245.41	5,338.88	-252.30	-551.30	-247.48	0.00	0.00	0.00
5,500.00	12.07	245.41	5,436.67	-261.00	-570.32	-256.01	0.00	0.00	0.00
5,600.00	12.07	245.41	5,534.46	-269.70	-589.34	-264.55	0.00	0.00	0.00
5,700.00	12.07	245.41	5,632.25	-278.40	-608.35	-273.09	0.00	0.00	0.00
5,800.00	12.07	245.41	5,730.04	-287.11	-627.37	-281.62	0.00	0.00	0.00
5,900.00	12.07	245.41	5,827.83	-295.81	-646.38	-290.16	0.00	0.00	0.00
6,000.00	12.07	245.41	5,925.62	-304.51	-665.40	-298.69	0.00	0.00	0.00
6,100.00	12.07	245.41	6,023.41	-313.22	-684.42	-307.23	0.00	0.00	0.00
6,200.00	12.07	245.41	6,121.20	-321.92	-703.43	-315.77	0.00	0.00	0.00
6,300.00	12.07	245.41	6,218.98	-330.62	-722.45	-324.30	0.00	0.00	0.00
6,359.33	12.07	245.41	6,277.00	-335.78	-733.73	-329.37	0.00	0.00	0.00
Delaware Mtn Group									
6,400.00	12.07	245.41	6,316.77	-339.32	-741.47	-332.84	0.00	0.00	0.00
6,500.00	12.07	245.41	6,414.56	-348.03	-760.48	-341.38	0.00	0.00	0.00
6,600.00	12.07	245.41	6,512.35	-356.73	-779.50	-349.91	0.00	0.00	0.00
6,700.00	12.07	245.41	6,610.14	-365.43	-798.51	-358.45	0.00	0.00	0.00
6,793.10	12.07	245.41	6,701.18	-373.53	-816.22	-366.40	0.00	0.00	0.00
6,800.00	11.97	245.41	6,707.93	-374.13	-817.52	-366.98	1.50	-1.50	0.00
6,900.00	10.47	245.41	6,806.02	-382.23	-835.21	-374.92	1.50	-1.50	0.00
7,000.00	8.97	245.41	6,904.58	-389.25	-850.56	-381.81	1.50	-1.50	0.00
7,100.00	7.47	245.41	7,003.55	-395.20	-863.56	-387.65	1.50	-1.50	0.00
7,200.00	5.97	245.41	7,102.86	-400.07	-874.20	-392.42	1.50	-1.50	0.00
7,300.00	4.47	245.41	7,202.44	-403.85	-882.47	-396.13	1.50	-1.50	0.00
7,400.00	2.97	245.41	7,302.23	-406.55	-888.36	-398.78	1.50	-1.50	0.00
7,500.00	1.47	245.41	7,402.15	-408.16	-891.88	-400.36	1.50	-1.50	0.00
7,597.86	0.00	0.00	7,500.00	-408.68	-893.02	-400.87	1.50	-1.50	0.00
7,600.00	0.00	0.00	7,502.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
7,700.00	0.00	0.00	7,602.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
7,800.00	0.00	0.00	7,702.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
7,900.00	0.00	0.00	7,802.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
7,932.86	0.00	0.00	7,835.00	-408.68	-893.02	-400.87	0.00	0.00	0.00
Bone Spring Lime									
8,000.00	0.00	0.00	7,902.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,100.00	0.00	0.00	8,002.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,200.00	0.00	0.00	8,102.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,300.00	0.00	0.00	8,202.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,400.00	0.00	0.00	8,302.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,500.00	0.00	0.00	8,402.14	-408.68	-893.02	-400.87	0.00	0.00	0.00



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well B01_Alpha State Com 503H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3888+30 @ 3918.00usft
Project:	PV_Lea County, NM(N83-NME3001)	MD Reference:	3888+30 @ 3918.00usft
Site:	Alpha East	North Reference:	Grid
Well:	B01_Alpha State Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	503H		
Design:	APD-Rev02		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.00	0.00	0.00	8,502.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,700.00	0.00	0.00	8,602.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,800.00	0.00	0.00	8,702.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
8,900.00	0.00	0.00	8,802.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
9,000.00	0.00	0.00	8,902.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
9,100.00	0.00	0.00	9,002.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
9,200.00	0.00	0.00	9,102.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
9,300.00	0.00	0.00	9,202.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
9,400.00	0.00	0.00	9,302.14	-408.68	-893.02	-400.87	0.00	0.00	0.00
9,412.86	0.00	0.00	9,315.00	-408.68	-893.02	-400.87	0.00	0.00	0.00
First Bone Spring Sand									
9,474.90	0.00	0.00	9,377.04	-408.68	-893.02	-400.87	0.00	0.00	0.00
KOP: 9474.90' MD/ -400.87' VS/9377.04' TVD									
9,500.00	2.51	359.57	9,402.13	-408.13	-893.02	-400.32	10.00	10.00	0.00
9,550.00	7.51	359.57	9,451.93	-403.77	-893.06	-395.96	10.00	10.00	0.00
9,600.00	12.51	359.57	9,501.15	-395.08	-893.12	-387.27	10.00	10.00	0.00
9,650.00	17.51	359.57	9,549.43	-382.13	-893.22	-374.32	10.00	10.00	0.00
9,690.94	21.60	359.57	9,588.00	-368.43	-893.32	-360.62	10.00	10.00	0.00
Second Bone Spring Carbonate									
9,700.00	22.51	359.57	9,596.39	-365.03	-893.35	-357.22	10.00	10.00	0.00
9,716.09	24.12	359.57	9,611.17	-358.66	-893.40	-350.85	10.00	10.00	0.00
100FLL: 9716.09' MD/ -350.85' VS/9611.17' TVD									
9,750.00	27.51	359.57	9,641.69	-343.90	-893.51	-336.09	10.00	10.00	0.00
9,800.00	32.51	359.57	9,684.97	-318.90	-893.70	-311.09	10.00	10.00	0.00
9,850.00	37.51	359.57	9,725.91	-290.22	-893.92	-282.41	10.00	10.00	0.00
9,900.00	42.51	359.57	9,764.20	-258.09	-894.16	-250.28	10.00	10.00	0.00
9,950.00	47.51	359.57	9,799.54	-222.74	-894.42	-214.92	10.00	10.00	0.00
01-T98(Alpha-503H)									
10,000.00	52.51	359.57	9,831.66	-184.44	-894.71	-176.63	10.00	10.00	0.00
10,050.00	57.51	359.57	9,860.32	-143.50	-895.02	-135.68	10.00	10.00	0.00
10,072.44	59.75	359.57	9,872.00	-124.34	-895.17	-116.52	10.00	10.00	0.00
Second Bone Spring Sand									
10,100.00	62.51	359.57	9,885.31	-100.20	-895.35	-92.39	10.00	10.00	0.00
10,150.00	67.51	359.57	9,906.42	-54.90	-895.69	-47.08	10.00	10.00	0.00
10,200.00	72.51	359.57	9,923.51	-7.93	-896.05	-0.11	10.00	10.00	0.00
10,250.00	77.51	359.57	9,936.44	40.35	-896.41	48.17	10.00	10.00	0.00
10,300.00	82.51	359.57	9,945.11	89.58	-896.78	97.40	10.00	10.00	0.00
10,350.00	87.51	359.57	9,949.46	139.37	-897.16	147.19	10.00	10.00	0.00
10,374.90	90.00	359.57	9,950.00	164.26	-897.35	172.09	10.00	10.00	0.00
EOC: 10374.90' MD/ 172.09' VS/9950.00' TVD - HZ Target									
10,400.00	90.00	359.57	9,950.00	189.36	-897.54	197.19	0.00	0.00	0.00
10,500.00	90.00	359.57	9,950.00	289.36	-898.29	297.19	0.00	0.00	0.00
10,600.00	90.00	359.57	9,950.00	389.35	-899.05	397.19	0.00	0.00	0.00
10,700.00	90.00	359.57	9,950.00	489.35	-899.81	497.19	0.00	0.00	0.00
10,800.00	90.00	359.57	9,950.00	589.35	-900.56	597.19	0.00	0.00	0.00
10,900.00	90.00	359.57	9,950.00	689.35	-901.32	697.19	0.00	0.00	0.00
11,000.00	90.00	359.57	9,950.00	789.34	-902.07	797.19	0.00	0.00	0.00
11,100.00	90.00	359.57	9,950.00	889.34	-902.83	897.19	0.00	0.00	0.00
11,200.00	90.00	359.57	9,950.00	989.34	-903.58	997.19	0.00	0.00	0.00
11,300.00	90.00	359.57	9,950.00	1,089.33	-904.34	1,097.19	0.00	0.00	0.00
11,400.00	90.00	359.57	9,950.00	1,189.33	-905.09	1,197.19	0.00	0.00	0.00
11,500.00	90.00	359.57	9,950.00	1,289.33	-905.85	1,297.19	0.00	0.00	0.00
11,600.00	90.00	359.57	9,950.00	1,389.33	-906.61	1,397.18	0.00	0.00	0.00



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well B01_Alpha State Com 503H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3888+30 @ 3918.00usft
Project:	PV_Lea County, NM(N83-NME3001)	MD Reference:	3888+30 @ 3918.00usft
Site:	Alpha East	North Reference:	Grid
Well:	B01_Alpha State Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	503H		
Design:	APD-Rev02		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,700.00	90.00	359.57	9,950.00	1,489.32	-907.36	1,497.18	0.00	0.00	0.00
11,800.00	90.00	359.57	9,950.00	1,589.32	-908.12	1,597.18	0.00	0.00	0.00
11,900.00	90.00	359.57	9,950.00	1,689.32	-908.87	1,697.18	0.00	0.00	0.00
12,000.00	90.00	359.57	9,950.00	1,789.31	-909.63	1,797.18	0.00	0.00	0.00
12,100.00	90.00	359.57	9,950.00	1,889.31	-910.38	1,897.18	0.00	0.00	0.00
12,200.00	90.00	359.57	9,950.00	1,989.31	-911.14	1,997.18	0.00	0.00	0.00
12,300.00	90.00	359.57	9,950.00	2,089.31	-911.89	2,097.18	0.00	0.00	0.00
12,400.00	90.00	359.57	9,950.00	2,189.30	-912.65	2,197.18	0.00	0.00	0.00
12,500.00	90.00	359.57	9,950.00	2,289.30	-913.41	2,297.18	0.00	0.00	0.00
12,600.00	90.00	359.57	9,950.00	2,389.30	-914.16	2,397.18	0.00	0.00	0.00
12,700.00	90.00	359.57	9,950.00	2,489.29	-914.92	2,497.18	0.00	0.00	0.00
12,800.00	90.00	359.57	9,950.00	2,589.29	-915.67	2,597.18	0.00	0.00	0.00
12,900.00	90.00	359.57	9,950.00	2,689.29	-916.43	2,697.18	0.00	0.00	0.00
13,000.00	90.00	359.57	9,950.00	2,789.29	-917.18	2,797.18	0.00	0.00	0.00
13,100.00	90.00	359.57	9,950.00	2,889.28	-917.94	2,897.18	0.00	0.00	0.00
13,200.00	90.00	359.57	9,950.00	2,989.28	-918.69	2,997.18	0.00	0.00	0.00
13,300.00	90.00	359.57	9,950.00	3,089.28	-919.45	3,097.18	0.00	0.00	0.00
13,400.00	90.00	359.57	9,950.00	3,189.28	-920.21	3,197.18	0.00	0.00	0.00
13,500.00	90.00	359.57	9,950.00	3,289.27	-920.96	3,297.18	0.00	0.00	0.00
13,600.00	90.00	359.57	9,950.00	3,389.27	-921.72	3,397.18	0.00	0.00	0.00
13,700.00	90.00	359.57	9,950.00	3,489.27	-922.47	3,497.18	0.00	0.00	0.00
13,800.00	90.00	359.57	9,950.00	3,589.26	-923.23	3,597.18	0.00	0.00	0.00
13,900.00	90.00	359.57	9,950.00	3,689.26	-923.98	3,697.18	0.00	0.00	0.00
14,000.00	90.00	359.57	9,950.00	3,789.26	-924.74	3,797.18	0.00	0.00	0.00
14,100.00	90.00	359.57	9,950.00	3,889.26	-925.49	3,897.18	0.00	0.00	0.00
14,200.00	90.00	359.57	9,950.00	3,989.25	-926.25	3,997.18	0.00	0.00	0.00
14,300.00	90.00	359.57	9,950.00	4,089.25	-927.01	4,097.18	0.00	0.00	0.00
14,400.00	90.00	359.57	9,950.00	4,189.25	-927.76	4,197.18	0.00	0.00	0.00
14,500.00	90.00	359.57	9,950.00	4,289.24	-928.52	4,297.18	0.00	0.00	0.00
14,600.00	90.00	359.57	9,950.00	4,389.24	-929.27	4,397.18	0.00	0.00	0.00
14,700.00	90.00	359.57	9,950.00	4,489.24	-930.03	4,497.18	0.00	0.00	0.00
14,800.00	90.00	359.57	9,950.00	4,589.24	-930.78	4,597.18	0.00	0.00	0.00
14,900.00	90.00	359.57	9,950.00	4,689.23	-931.54	4,697.18	0.00	0.00	0.00
15,000.00	90.00	359.57	9,950.00	4,789.23	-932.29	4,797.18	0.00	0.00	0.00
15,100.00	90.00	359.57	9,950.00	4,889.23	-933.05	4,897.18	0.00	0.00	0.00
15,200.00	90.00	359.57	9,950.00	4,989.22	-933.81	4,997.18	0.00	0.00	0.00
15,300.00	90.00	359.57	9,950.00	5,089.22	-934.56	5,097.18	0.00	0.00	0.00
15,400.00	90.00	359.57	9,950.00	5,189.22	-935.32	5,197.18	0.00	0.00	0.00
15,500.00	90.00	359.57	9,950.00	5,289.22	-936.07	5,297.18	0.00	0.00	0.00
15,600.00	90.00	359.57	9,950.00	5,389.21	-936.83	5,397.18	0.00	0.00	0.00
15,700.00	90.00	359.57	9,950.00	5,489.21	-937.58	5,497.18	0.00	0.00	0.00
15,800.00	90.00	359.57	9,950.00	5,589.21	-938.34	5,597.18	0.00	0.00	0.00
15,900.00	90.00	359.57	9,950.00	5,689.20	-939.09	5,697.18	0.00	0.00	0.00
16,000.00	90.00	359.57	9,950.00	5,789.20	-939.85	5,797.18	0.00	0.00	0.00
16,100.00	90.00	359.57	9,950.00	5,889.20	-940.61	5,897.18	0.00	0.00	0.00
16,200.00	90.00	359.57	9,950.00	5,989.20	-941.36	5,997.18	0.00	0.00	0.00
16,300.00	90.00	359.57	9,950.00	6,089.19	-942.12	6,097.18	0.00	0.00	0.00
16,400.00	90.00	359.57	9,950.00	6,189.19	-942.87	6,197.18	0.00	0.00	0.00
16,500.00	90.00	359.57	9,950.00	6,289.19	-943.63	6,297.18	0.00	0.00	0.00
16,600.00	90.00	359.57	9,950.00	6,389.18	-944.38	6,397.18	0.00	0.00	0.00
16,700.00	90.00	359.57	9,950.00	6,489.18	-945.14	6,497.18	0.00	0.00	0.00
16,800.00	90.00	359.57	9,950.00	6,589.18	-945.89	6,597.18	0.00	0.00	0.00
16,900.00	90.00	359.57	9,950.00	6,689.18	-946.65	6,697.18	0.00	0.00	0.00
17,000.00	90.00	359.57	9,950.00	6,789.17	-947.41	6,797.18	0.00	0.00	0.00



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well B01_Alpha State Com 503H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3888+30 @ 3918.00usft
Project:	PV_Lea County, NM(N83-NME3001)	MD Reference:	3888+30 @ 3918.00usft
Site:	Alpha East	North Reference:	Grid
Well:	B01_Alpha State Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	503H		
Design:	APD-Rev02		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,100.00	90.00	359.57	9,950.00	6,889.17	-948.16	6,897.18	0.00	0.00	0.00
17,200.00	90.00	359.57	9,950.00	6,989.17	-948.92	6,997.18	0.00	0.00	0.00
17,300.00	90.00	359.57	9,950.00	7,089.16	-949.67	7,097.18	0.00	0.00	0.00
17,400.00	90.00	359.57	9,950.00	7,189.16	-950.43	7,197.18	0.00	0.00	0.00
17,500.00	90.00	359.57	9,950.00	7,289.16	-951.18	7,297.18	0.00	0.00	0.00
17,600.00	90.00	359.57	9,950.00	7,389.16	-951.94	7,397.18	0.00	0.00	0.00
17,700.00	90.00	359.57	9,950.00	7,489.15	-952.69	7,497.18	0.00	0.00	0.00
17,800.00	90.00	359.57	9,950.00	7,589.15	-953.45	7,597.18	0.00	0.00	0.00
17,900.00	90.00	359.57	9,950.00	7,689.15	-954.21	7,697.18	0.00	0.00	0.00
18,000.00	90.00	359.57	9,950.00	7,789.14	-954.96	7,797.18	0.00	0.00	0.00
18,100.00	90.00	359.57	9,950.00	7,889.14	-955.72	7,897.18	0.00	0.00	0.00
18,200.00	90.00	359.57	9,950.00	7,989.14	-956.47	7,997.18	0.00	0.00	0.00
18,300.00	90.00	359.57	9,950.00	8,089.14	-957.23	8,097.18	0.00	0.00	0.00
18,400.00	90.00	359.57	9,950.00	8,189.13	-957.98	8,197.18	0.00	0.00	0.00
18,500.00	90.00	359.57	9,950.00	8,289.13	-958.74	8,297.18	0.00	0.00	0.00
18,600.00	90.00	359.57	9,950.00	8,389.13	-959.49	8,397.18	0.00	0.00	0.00
18,700.00	90.00	359.57	9,950.00	8,489.12	-960.25	8,497.18	0.00	0.00	0.00
18,800.00	90.00	359.57	9,950.00	8,589.12	-961.01	8,597.18	0.00	0.00	0.00
18,900.00	90.00	359.57	9,950.00	8,689.12	-961.76	8,697.18	0.00	0.00	0.00
19,000.00	90.00	359.57	9,950.00	8,789.12	-962.52	8,797.18	0.00	0.00	0.00
19,100.00	90.00	359.57	9,950.00	8,889.11	-963.27	8,897.18	0.00	0.00	0.00
19,200.00	90.00	359.57	9,950.00	8,989.11	-964.03	8,997.18	0.00	0.00	0.00
19,300.00	90.00	359.57	9,950.00	9,089.11	-964.78	9,097.18	0.00	0.00	0.00
19,400.00	90.00	359.57	9,950.00	9,189.10	-965.54	9,197.18	0.00	0.00	0.00
19,500.00	90.00	359.57	9,950.00	9,289.10	-966.29	9,297.18	0.00	0.00	0.00
19,600.00	90.00	359.57	9,950.00	9,389.10	-967.05	9,397.18	0.00	0.00	0.00
19,700.00	90.00	359.57	9,950.00	9,489.10	-967.81	9,497.18	0.00	0.00	0.00
19,800.00	90.00	359.57	9,950.00	9,589.09	-968.56	9,597.18	0.00	0.00	0.00
19,900.00	90.00	359.57	9,950.00	9,689.09	-969.32	9,697.18	0.00	0.00	0.00
20,000.00	90.00	359.57	9,950.00	9,789.09	-970.07	9,797.18	0.00	0.00	0.00
20,100.00	90.00	359.57	9,950.00	9,889.08	-970.83	9,897.18	0.00	0.00	0.00
20,165.10	90.00	359.57	9,950.00	9,954.18	-971.32	9,962.28	0.00	0.00	0.00
TD: 20165.10' MD/ 9962.28' VS/9950.00' TVD - 02-PBHL(Alpha-503H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
01-T98(Alpha-503H)	0.00	0.00	9,950.00	-358.64	-892.78	613,187.92	809,651.95	32.68266652	-103.46126034
- hit/miss target									
- Shape									
- plan misses target center by 202.76usft at 9950.00usft MD (9799.54 TVD, -222.74 N, -894.42 E)									
- Point									
02-PBHL(Alpha-503H)	0.00	0.00	9,950.00	9,954.18	-971.32	623,500.74	809,573.41	32.71101186	-103.46124000
- hit/miss target									
- Shape									
- plan hits target center									
- Point									



Planning Report

Database:	TZ USA 17.2	Local Co-ordinate Reference:	Well B01_Alpha State Com 503H
Company:	Franklin Mountain Energy LLC	TVD Reference:	3888+30 @ 3918.00usft
Project:	PV_Lea County, NM(N83-NME3001)	MD Reference:	3888+30 @ 3918.00usft
Site:	Alpha East	North Reference:	Grid
Well:	B01_Alpha State Com 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	503H		
Design:	APD-Rev02		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
30.00	30.00	Cenozoic Alluvium (surface)				
1,949.00	1,949.00	Rustler				
2,070.00	2,070.00	Salado				
3,177.98	3,166.00	Base Salt				
3,415.23	3,398.00	Yates				
3,915.29	3,887.00	Seven Rivers				
4,706.79	4,661.00	Queen				
6,359.33	6,277.00	Delaware Mtn Group				
7,932.86	7,835.00	Bone Spring Lime				
9,412.86	9,315.00	First Bone Spring Sand				
9,690.94	9,588.00	Second Bone Spring Carbonate				
10,072.44	9,872.00	Second Bone Spring Sand				
10,374.90	9,950.00	HZ Target				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,474.90	9,377.04	-408.68	-893.02	KOP: 9474.90' MD/ -400.87' VS/9377.04' TVD	
9,716.09	9,611.17	-358.66	-893.40	100FLL: 9716.09' MD/ -350.85' VS/9611.17' TVD	
10,374.90	9,950.00	164.26	-897.35	EOC: 10374.90' MD/ 172.09' VS/9950.00' TVD	
20,165.10	9,950.00	9,954.18	-971.32	TD: 20165.10' MD/ 9962.28' VS/9950.00' TVD	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 355757

CONDITIONS

Operator: Franklin Mountain Energy 3, LLC 44 Cook Street Denver, CO 80206	OGRID: 331595
	Action Number: 355757
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA'S APPLY.	6/21/2024