

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

Form C-101
August 1, 2011
Permit 272764

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202		2. OGRID Number 372165
4. Property Code 326030		3. API Number 30-025-46400
5. Property Name QUESO BLANCO 13 STATE COM		6. Well No. 603H

7. Surface Location

UL - Lot N	Section 13	Township 22S	Range 34E	Lot Idn N	Feet From 1225	N/S Line S	Feet From 1562	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot K	Section 12	Township 22S	Range 34E	Lot Idn K	Feet From 2533	N/S Line S	Feet From 2310	E/W Line W	County Lea
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9. Pool Information

OJO CHISO;BONE SPRING	96553
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3507
16. Multiple N	17. Proposed Depth 18589	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 11/30/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1800	1533	0
Int1	12.25	9.625	40	5600	1383	0
Prod	8.75	5.5	20	10663	925	0
Prod	8.5	5.5	20	18589	1805	10763

Casing/Cement Program: Additional Comments

Drill 8.75 hole size for the curve and 8.5 hole size for the lateral. 5.5 casing string ran for 8.75 & 8.5 holes as one string.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Sarah Ferreyros	Approved By: Paul F Kautz
Title: Senior Regulatory Analyst	Title: Geologist
Email Address: Sarah.Ferreyros@cdevinc.com	Approved Date: 10/1/2019 Expiration Date: 10/1/2021
Date: 9/27/2019 Phone: 720-499-1454	Conditions of Approval Attached

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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 96553	³ Pool Name Ojo Chiso; Bone Spring
⁴ Property Code	⁵ Property Name QUESO BLANCO 13 STATE COM	⁶ Well Number 603H
⁷ OGRID No. 372165	⁸ Operator Name CENTENNIAL RESOURCE PRODUCTION, LLC	⁹ Elevation 3507.8'

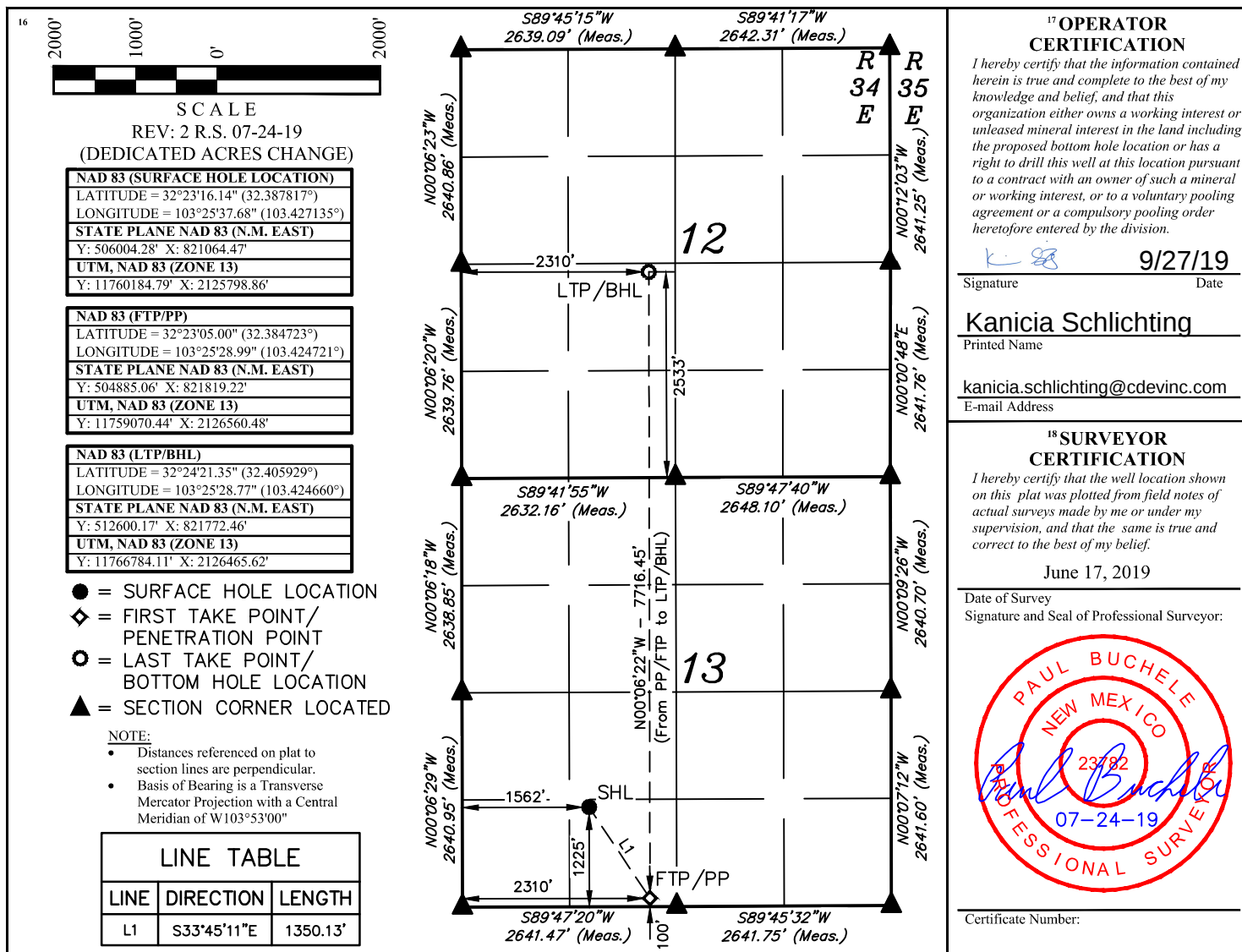
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	13	22S	34E		1225	SOUTH	1562	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	12	22S	34E		2533	SOUTH	2310	WEST	LEA
¹² Dedicated Acres 480	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.



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GAS CAPTURE PLAN

Date: 10/1/2019

☒ Original

Operator & OGRID No.: [372165] CENTENNIAL RESOURCE PRODUCTION, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
QUESO BLANCO 13 STATE COM #603H	30-025-46400	N-13-22S-34E	1225S 1562W	1950	None	Gathering System is High and Low pressure.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC High Pressure gathering system located in Lea County, New Mexico. It will require 723' of pipeline to connect the facility to High Pressure gathering system. CENTENNIAL RESOURCE PRODUCTION, LLC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, CENTENNIAL RESOURCE PRODUCTION, LLC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is CENTENNIAL RESOURCE PRODUCTION, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 272764

PERMIT COMMENTS

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202		API Number: 30-025-46400
		Well: QUESO BLANCO 13 STATE COM #603H
Created By	Comment	Comment Date
kcastillo	Spudder Rig will preset surface casing. C-102 and Additional Points Required will be emailed.	9/27/2019

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Form APD Conditions

Permit 272764

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CENTENNIAL RESOURCE PRODUCTION, LLC [372165] 1001 17th Street, Suite 1800 Denver, CO 80202	API Number: 30-025-46400
	Well: QUESO BLANCO 13 STATE COM #603H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.

NEW MEXICO

LEA

QUESO BLANCO

QUESO BLANCO 13 STATE COM 603H

QUESO BLANCO 13 STATE COM 603H

Plan: PWP1

Survey Report - Geographic

03 September, 2019

LGC
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well QUESO BLANCO 13 STATE COM 603H
Project:	LEA	TVD Reference:	RKB=3507.8+25 @ 3532.8usft
Site:	QUESO BLANCO	MD Reference:	RKB=3507.8+25 @ 3532.8usft
Well:	QUESO BLANCO 13 STATE COM 603H	North Reference:	True
Wellbore:	QUESO BLANCO 13 STATE COM 603H	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	Centennial EDM SQL Server

Project	LEA		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	QUESO BLANCO		
Site Position:		Northing:	0.00 usft
From:	Map	Easting:	0.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	0° 0' 0.000 N
		Longitude:	109° 29' 19.478 W
		Grid Convergence:	0.00 °

Well	QUESO BLANCO 13 STATE COM 603H		
Well Position	+N/-S	0.0 usft	Northing: 11,760,184.79 usft
	+E/-W	0.0 usft	Easting: 2,125,798.86 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 23' 16.141 N
		Longitude:	103° 25' 37.685 W
		Ground Level:	3,507.8 usft

Wellbore	QUESO BLANCO 13 STATE COM 603H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	12/31/2009	7.69
			Dip Angle
			(°)
			60.42
			Field Strength
			(nT)
			48,907.27218639

Design	PWP1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			0.00

Survey Tool Program	Date	9/3/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	18,588.5	PWP1 (QUESO BLANCO 13 STATE COM	MWD+IFR1+MS	OWSG_Rev2_ MWD + IFR1 + Multi-Station Correction

Planned Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map			
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting	Latitude	Longitude	
(usft)			(usft)			(usft)	(usft)			
0.0	0.00	0.00	0.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
100.0	0.00	0.00	100.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
200.0	0.00	0.00	200.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
300.0	0.00	0.00	300.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
400.0	0.00	0.00	400.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
500.0	0.00	0.00	500.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
600.0	0.00	0.00	600.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
700.0	0.00	0.00	700.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
800.0	0.00	0.00	800.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
900.0	0.00	0.00	900.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	

LGC
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well QUESO BLANCO 13 STATE COM 603H
Project:	LEA	TVD Reference:	RKB=3507.8+25 @ 3532.8usft
Site:	QUESO BLANCO	MD Reference:	RKB=3507.8+25 @ 3532.8usft
Well:	QUESO BLANCO 13 STATE COM 603H	North Reference:	True
Wellbore:	QUESO BLANCO 13 STATE COM 603H	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	Centennial EDM SQL Server

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,760,184.79	2,125,798.86	32° 23' 16.141 N	103° 25' 37.685 W	
2,100.0	1.00	148.00	2,100.0	-0.7	0.5	11,760,184.06	2,125,799.33	32° 23' 16.134 N	103° 25' 37.679 W	
2,200.0	2.00	148.00	2,200.0	-3.0	1.8	11,760,181.86	2,125,800.75	32° 23' 16.112 N	103° 25' 37.663 W	
2,300.0	3.00	148.00	2,299.9	-6.7	4.2	11,760,178.20	2,125,803.12	32° 23' 16.075 N	103° 25' 37.636 W	
2,400.0	4.00	148.00	2,399.7	-11.8	7.4	11,760,173.07	2,125,806.43	32° 23' 16.024 N	103° 25' 37.598 W	
2,500.0	5.00	148.00	2,499.4	-18.5	11.6	11,760,166.47	2,125,810.68	32° 23' 15.958 N	103° 25' 37.550 W	
2,600.0	6.00	148.00	2,598.9	-26.6	16.6	11,760,158.42	2,125,815.88	32° 23' 15.878 N	103° 25' 37.491 W	
2,700.0	7.00	148.00	2,698.3	-36.2	22.6	11,760,148.91	2,125,822.02	32° 23' 15.783 N	103° 25' 37.421 W	
2,800.0	8.00	148.00	2,797.4	-47.3	29.5	11,760,137.95	2,125,829.10	32° 23' 15.673 N	103° 25' 37.340 W	
2,900.0	9.00	148.00	2,896.3	-59.8	37.4	11,760,125.53	2,125,837.11	32° 23' 15.549 N	103° 25' 37.249 W	
3,000.0	10.00	148.00	2,994.9	-73.8	46.1	11,760,111.66	2,125,846.07	32° 23' 15.411 N	103° 25' 37.147 W	
3,100.0	10.00	148.00	3,093.4	-88.5	55.3	11,760,097.07	2,125,855.48	32° 23' 15.265 N	103° 25' 37.039 W	
3,200.0	10.00	148.00	3,191.9	-103.3	64.5	11,760,082.48	2,125,864.90	32° 23' 15.119 N	103° 25' 36.932 W	
3,300.0	10.00	148.00	3,290.4	-118.0	73.7	11,760,067.89	2,125,874.32	32° 23' 14.974 N	103° 25' 36.825 W	
3,400.0	10.00	148.00	3,388.9	-132.7	82.9	11,760,053.30	2,125,883.74	32° 23' 14.828 N	103° 25' 36.717 W	
3,500.0	10.00	148.00	3,487.3	-147.4	92.1	11,760,038.71	2,125,893.15	32° 23' 14.682 N	103° 25' 36.610 W	
3,600.0	10.00	148.00	3,585.8	-162.2	101.3	11,760,024.13	2,125,902.57	32° 23' 14.536 N	103° 25' 36.503 W	
3,700.0	10.00	148.00	3,684.3	-176.9	110.5	11,760,009.54	2,125,911.99	32° 23' 14.391 N	103° 25' 36.395 W	
3,800.0	10.00	148.00	3,782.8	-191.6	119.7	11,759,994.95	2,125,921.41	32° 23' 14.245 N	103° 25' 36.288 W	
3,900.0	10.00	148.00	3,881.3	-206.4	128.9	11,759,980.36	2,125,930.82	32° 23' 14.099 N	103° 25' 36.181 W	
4,000.0	10.00	148.00	3,979.7	-221.1	138.1	11,759,965.77	2,125,940.24	32° 23' 13.954 N	103° 25' 36.073 W	
4,100.0	10.00	148.00	4,078.2	-235.8	147.3	11,759,951.18	2,125,949.66	32° 23' 13.808 N	103° 25' 35.966 W	
4,200.0	10.00	148.00	4,176.7	-250.5	156.6	11,759,936.59	2,125,959.08	32° 23' 13.662 N	103° 25' 35.859 W	
4,300.0	10.00	148.00	4,275.2	-265.3	165.8	11,759,922.00	2,125,968.49	32° 23' 13.516 N	103° 25' 35.751 W	
4,400.0	10.00	148.00	4,373.7	-280.0	175.0	11,759,907.41	2,125,977.91	32° 23' 13.371 N	103° 25' 35.644 W	
4,500.0	10.00	148.00	4,472.1	-294.7	184.2	11,759,892.82	2,125,987.33	32° 23' 13.225 N	103° 25' 35.537 W	
4,600.0	10.00	148.00	4,570.6	-309.4	193.4	11,759,878.23	2,125,996.75	32° 23' 13.079 N	103° 25' 35.429 W	
4,700.0	10.00	148.00	4,669.1	-324.2	202.6	11,759,863.64	2,126,006.16	32° 23' 12.933 N	103° 25' 35.322 W	
4,800.0	10.00	148.00	4,767.6	-338.9	211.8	11,759,849.05	2,126,015.58	32° 23' 12.788 N	103° 25' 35.215 W	
4,900.0	10.00	148.00	4,866.1	-353.6	221.0	11,759,834.46	2,126,025.00	32° 23' 12.642 N	103° 25' 35.107 W	
5,000.0	10.00	148.00	4,964.5	-368.3	230.2	11,759,819.88	2,126,034.42	32° 23' 12.496 N	103° 25' 35.000 W	
5,100.0	10.00	148.00	5,063.0	-383.1	239.4	11,759,805.29	2,126,043.83	32° 23' 12.350 N	103° 25' 34.893 W	
5,200.0	10.00	148.00	5,161.5	-397.8	248.6	11,759,790.70	2,126,053.25	32° 23' 12.205 N	103° 25' 34.786 W	
5,300.0	10.00	148.00	5,260.0	-412.5	257.8	11,759,776.11	2,126,062.67	32° 23' 12.059 N	103° 25' 34.678 W	
5,400.0	10.00	148.00	5,358.5	-427.2	267.0	11,759,761.52	2,126,072.09	32° 23' 11.913 N	103° 25' 34.571 W	
5,500.0	10.00	148.00	5,457.0	-442.0	276.2	11,759,746.93	2,126,081.50	32° 23' 11.767 N	103° 25' 34.464 W	
5,600.0	10.00	148.00	5,555.4	-456.7	285.4	11,759,732.34	2,126,090.92	32° 23' 11.622 N	103° 25' 34.356 W	
5,700.0	10.00	148.00	5,653.9	-471.4	294.6	11,759,717.75	2,126,100.34	32° 23' 11.476 N	103° 25' 34.249 W	
5,800.0	10.00	148.00	5,752.4	-486.2	303.8	11,759,703.16	2,126,109.76	32° 23' 11.330 N	103° 25' 34.142 W	
5,900.0	10.00	148.00	5,850.9	-500.9	313.0	11,759,688.57	2,126,119.17	32° 23' 11.185 N	103° 25' 34.034 W	
6,000.0	10.00	148.00	5,949.4	-515.6	322.2	11,759,673.98	2,126,128.59	32° 23' 11.039 N	103° 25' 33.927 W	
6,100.0	10.00	148.00	6,047.8	-530.3	331.4	11,759,659.39	2,126,138.01	32° 23' 10.893 N	103° 25' 33.820 W	
6,200.0	10.00	148.00	6,146.3	-545.1	340.6	11,759,644.80	2,126,147.43	32° 23' 10.747 N	103° 25' 33.712 W	
6,300.0	10.00	148.00	6,244.8	-559.8	349.8	11,759,630.21	2,126,156.84	32° 23' 10.602 N	103° 25' 33.605 W	
6,400.0	10.00	148.00	6,343.3	-574.5	359.0	11,759,615.63	2,126,166.26	32° 23' 10.456 N	103° 25' 33.498 W	
6,500.0	10.00	148.00	6,441.8	-589.2	368.2	11,759,601.04	2,126,175.68	32° 23' 10.310 N	103° 25' 33.390 W	
6,600.0	10.00	148.00	6,540.2	-604.0	377.4	11,759,586.45	2,126,185.10	32° 23' 10.164 N	103° 25' 33.283 W	

LGC
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well QUESO BLANCO 13 STATE COM 603H
Project:	LEA	TVD Reference:	RKB=3507.8+25 @ 3532.8usft
Site:	QUESO BLANCO	MD Reference:	RKB=3507.8+25 @ 3532.8usft
Well:	QUESO BLANCO 13 STATE COM 603H	North Reference:	True
Wellbore:	QUESO BLANCO 13 STATE COM 603H	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	Centennial EDM SQL Server

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,700.0	10.00	148.00	6,638.7	-618.7	386.6	11,759,571.86	2,126,194.51	32° 23' 10.019 N	103° 25' 33.176 W
6,800.0	10.00	148.00	6,737.2	-633.4	395.8	11,759,557.27	2,126,203.93	32° 23' 9.873 N	103° 25' 33.068 W
6,900.0	10.00	148.00	6,835.7	-648.1	405.0	11,759,542.68	2,126,213.35	32° 23' 9.727 N	103° 25' 32.961 W
7,000.0	10.00	148.00	6,934.2	-662.9	414.2	11,759,528.09	2,126,222.77	32° 23' 9.581 N	103° 25' 32.854 W
7,100.0	10.00	148.00	7,032.6	-677.6	423.4	11,759,513.50	2,126,232.18	32° 23' 9.436 N	103° 25' 32.746 W
7,200.0	10.00	148.00	7,131.1	-692.3	432.6	11,759,498.91	2,126,241.60	32° 23' 9.290 N	103° 25' 32.639 W
7,300.0	10.00	148.00	7,229.6	-707.0	441.8	11,759,484.32	2,126,251.02	32° 23' 9.144 N	103° 25' 32.532 W
7,400.0	10.00	148.00	7,328.1	-721.8	451.0	11,759,469.73	2,126,260.44	32° 23' 8.999 N	103° 25' 32.424 W
7,500.0	10.00	148.00	7,426.6	-736.5	460.2	11,759,455.14	2,126,269.85	32° 23' 8.853 N	103° 25' 32.317 W
7,600.0	10.00	148.00	7,525.0	-751.2	469.4	11,759,440.55	2,126,279.27	32° 23' 8.707 N	103° 25' 32.210 W
7,700.0	10.00	148.00	7,623.5	-765.9	478.6	11,759,425.97	2,126,288.69	32° 23' 8.561 N	103° 25' 32.103 W
7,800.0	10.00	148.00	7,722.0	-780.7	487.8	11,759,411.38	2,126,298.11	32° 23' 8.416 N	103° 25' 31.995 W
7,900.0	10.00	148.00	7,820.5	-795.4	497.0	11,759,396.79	2,126,307.52	32° 23' 8.270 N	103° 25' 31.888 W
8,000.0	10.00	148.00	7,919.0	-810.1	506.2	11,759,382.20	2,126,316.94	32° 23' 8.124 N	103° 25' 31.781 W
8,100.0	9.00	148.00	8,017.6	-824.1	515.0	11,759,368.33	2,126,325.89	32° 23' 7.986 N	103° 25' 31.679 W
8,200.0	8.00	148.00	8,116.5	-836.7	522.8	11,759,355.91	2,126,333.91	32° 23' 7.862 N	103° 25' 31.587 W
8,300.0	7.00	148.00	8,215.6	-847.7	529.7	11,759,344.95	2,126,340.99	32° 23' 7.752 N	103° 25' 31.507 W
8,400.0	6.00	148.00	8,315.0	-857.3	535.7	11,759,335.44	2,126,347.13	32° 23' 7.657 N	103° 25' 31.437 W
8,500.0	5.00	148.00	8,414.5	-865.5	540.8	11,759,327.38	2,126,352.33	32° 23' 7.577 N	103° 25' 31.377 W
8,600.0	4.00	148.00	8,514.2	-872.1	545.0	11,759,320.79	2,126,356.58	32° 23' 7.511 N	103° 25' 31.329 W
8,700.0	3.00	148.00	8,614.0	-877.3	548.2	11,759,315.66	2,126,359.89	32° 23' 7.460 N	103° 25' 31.291 W
8,800.0	2.00	148.00	8,713.9	-881.0	550.5	11,759,312.00	2,126,362.26	32° 23' 7.423 N	103° 25' 31.264 W
8,900.0	1.00	148.00	8,813.9	-883.2	551.9	11,759,309.80	2,126,363.68	32° 23' 7.401 N	103° 25' 31.248 W
9,000.0	0.00	0.00	8,913.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,100.0	0.00	0.00	9,013.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,200.0	0.00	0.00	9,113.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,300.0	0.00	0.00	9,213.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,400.0	0.00	0.00	9,313.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,500.0	0.00	0.00	9,413.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,600.0	0.00	0.00	9,513.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,700.0	0.00	0.00	9,613.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,800.0	0.00	0.00	9,713.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
9,900.0	0.00	0.00	9,813.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,000.0	0.00	0.00	9,913.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,100.0	0.00	0.00	10,013.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,200.0	0.00	0.00	10,113.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,300.0	0.00	0.00	10,213.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,400.0	0.00	0.00	10,313.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,500.0	0.00	0.00	10,413.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,600.0	0.00	0.00	10,513.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,700.0	0.00	0.00	10,613.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,763.0	0.00	0.00	10,676.9	-883.9	552.4	11,759,309.07	2,126,364.15	32° 23' 7.394 N	103° 25' 31.243 W
10,800.0	3.70	15.10	10,713.9	-882.8	552.7	11,759,310.22	2,126,364.44	32° 23' 7.405 N	103° 25' 31.239 W
10,900.0	13.70	15.10	10,812.6	-868.2	556.6	11,759,324.86	2,126,368.16	32° 23' 7.549 N	103° 25' 31.193 W
11,000.0	23.69	15.10	10,907.2	-837.3	564.9	11,759,355.89	2,126,376.05	32° 23' 7.855 N	103° 25' 31.096 W
11,100.0	33.69	15.10	10,994.8	-791.0	577.4	11,759,402.36	2,126,387.86	32° 23' 8.313 N	103° 25' 30.950 W
11,200.0	43.69	15.10	11,072.8	-730.7	593.7	11,759,462.87	2,126,403.23	32° 23' 8.910 N	103° 25' 30.760 W
11,300.0	53.69	15.10	11,138.7	-658.3	613.2	11,759,535.58	2,126,421.71	32° 23' 9.627 N	103° 25' 30.532 W
11,400.0	63.68	15.10	11,190.6	-575.9	635.5	11,759,618.27	2,126,442.72	32° 23' 10.442 N	103° 25' 30.273 W
11,500.0	73.68	15.10	11,226.9	-486.1	659.7	11,759,708.45	2,126,465.63	32° 23' 11.331 N	103° 25' 29.991 W
11,600.0	83.68	15.10	11,246.5	-391.6	685.2	11,759,803.36	2,126,489.75	32° 23' 12.266 N	103° 25' 29.693 W
11,663.2	90.00	15.10	11,250.0	-330.6	701.6	11,759,864.51	2,126,505.29	32° 23' 12.869 N	103° 25' 29.501 W
11,700.0	90.00	14.00	11,250.0	-295.0	710.9	11,759,900.24	2,126,514.00	32° 23' 13.222 N	103° 25' 29.394 W
11,800.0	90.00	11.00	11,250.0	-197.4	732.5	11,759,998.17	2,126,534.20	32° 23' 14.188 N	103° 25' 29.141 W
11,900.0	90.00	8.00	11,250.0	-98.8	749.0	11,760,097.02	2,126,549.25	32° 23' 15.164 N	103° 25' 28.949 W

LGC
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well QUESO BLANCO 13 STATE COM 603H
Project:	LEA	TVD Reference:	RKB=3507.8+25 @ 3532.8usft
Site:	QUESO BLANCO	MD Reference:	RKB=3507.8+25 @ 3532.8usft
Well:	QUESO BLANCO 13 STATE COM 603H	North Reference:	True
Wellbore:	QUESO BLANCO 13 STATE COM 603H	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	Centennial EDM SQL Server

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,000.0	90.00	5.00	11,250.0	0.5	760.3	11,760,196.52	2,126,559.10	32° 23' 16.147 N	103° 25' 28.817 W
12,100.0	90.00	2.00	11,250.0	100.3	766.4	11,760,296.40	2,126,563.73	32° 23' 17.134 N	103° 25' 28.746 W
12,166.6	90.00	0.00	11,250.0	166.9	767.6	11,760,362.96	2,126,563.91	32° 23' 17.793 N	103° 25' 28.732 W
12,200.0	90.00	0.00	11,250.0	200.3	767.6	11,760,396.40	2,126,563.42	32° 23' 18.124 N	103° 25' 28.732 W
12,300.0	90.00	0.00	11,250.0	300.3	767.6	11,760,496.39	2,126,561.95	32° 23' 19.113 N	103° 25' 28.732 W
12,400.0	90.00	0.00	11,250.0	400.3	767.6	11,760,596.37	2,126,560.48	32° 23' 20.103 N	103° 25' 28.732 W
12,500.0	90.00	0.00	11,250.0	500.3	767.6	11,760,696.36	2,126,559.00	32° 23' 21.093 N	103° 25' 28.732 W
12,600.0	90.00	0.00	11,250.0	600.3	767.6	11,760,796.35	2,126,557.53	32° 23' 22.082 N	103° 25' 28.732 W
12,700.0	90.00	0.00	11,250.0	700.3	767.6	11,760,896.34	2,126,556.06	32° 23' 23.072 N	103° 25' 28.732 W
12,800.0	90.00	0.00	11,250.0	800.3	767.6	11,760,996.33	2,126,554.59	32° 23' 24.062 N	103° 25' 28.732 W
12,900.0	90.00	0.00	11,250.0	900.3	767.6	11,761,096.32	2,126,553.12	32° 23' 25.051 N	103° 25' 28.732 W
13,000.0	90.00	0.00	11,250.0	1,000.3	767.6	11,761,196.31	2,126,551.65	32° 23' 26.041 N	103° 25' 28.732 W
13,100.0	90.00	0.00	11,250.0	1,100.3	767.6	11,761,296.30	2,126,550.18	32° 23' 27.030 N	103° 25' 28.732 W
13,200.0	90.00	0.00	11,250.0	1,200.3	767.6	11,761,396.29	2,126,548.71	32° 23' 28.020 N	103° 25' 28.732 W
13,300.0	90.00	0.00	11,250.0	1,300.3	767.6	11,761,496.28	2,126,547.24	32° 23' 29.010 N	103° 25' 28.732 W
13,400.0	90.00	0.00	11,250.0	1,400.3	767.6	11,761,596.27	2,126,545.77	32° 23' 29.999 N	103° 25' 28.732 W
13,500.0	90.00	0.00	11,250.0	1,500.3	767.6	11,761,696.26	2,126,544.30	32° 23' 30.989 N	103° 25' 28.732 W
13,600.0	90.00	0.00	11,250.0	1,600.3	767.6	11,761,796.25	2,126,542.83	32° 23' 31.978 N	103° 25' 28.732 W
13,700.0	90.00	0.00	11,250.0	1,700.3	767.6	11,761,896.23	2,126,541.36	32° 23' 32.968 N	103° 25' 28.732 W
13,800.0	90.00	0.00	11,250.0	1,800.3	767.6	11,761,996.22	2,126,539.88	32° 23' 33.958 N	103° 25' 28.732 W
13,900.0	90.00	0.00	11,250.0	1,900.3	767.6	11,762,096.21	2,126,538.41	32° 23' 34.947 N	103° 25' 28.732 W
14,000.0	90.00	0.00	11,250.0	2,000.3	767.6	11,762,196.20	2,126,536.94	32° 23' 35.937 N	103° 25' 28.732 W
14,100.0	90.00	0.00	11,250.0	2,100.3	767.6	11,762,296.19	2,126,535.47	32° 23' 36.927 N	103° 25' 28.732 W
14,200.0	90.00	0.00	11,250.0	2,200.3	767.6	11,762,396.18	2,126,534.00	32° 23' 37.916 N	103° 25' 28.732 W
14,300.0	90.00	0.00	11,250.0	2,300.3	767.6	11,762,496.17	2,126,532.53	32° 23' 38.906 N	103° 25' 28.731 W
14,400.0	90.00	0.00	11,250.0	2,400.3	767.6	11,762,596.16	2,126,531.06	32° 23' 39.895 N	103° 25' 28.731 W
14,500.0	90.00	0.00	11,250.0	2,500.3	767.6	11,762,696.15	2,126,529.59	32° 23' 40.885 N	103° 25' 28.731 W
14,600.0	90.00	0.00	11,250.0	2,600.3	767.6	11,762,796.14	2,126,528.12	32° 23' 41.875 N	103° 25' 28.731 W
14,700.0	90.00	0.00	11,250.0	2,700.3	767.6	11,762,896.13	2,126,526.65	32° 23' 42.864 N	103° 25' 28.731 W
14,800.0	90.00	0.00	11,250.0	2,800.3	767.6	11,762,996.12	2,126,525.18	32° 23' 43.854 N	103° 25' 28.731 W
14,900.0	90.00	0.00	11,250.0	2,900.3	767.6	11,763,096.10	2,126,523.71	32° 23' 44.844 N	103° 25' 28.731 W
15,000.0	90.00	0.00	11,250.0	3,000.3	767.6	11,763,196.09	2,126,522.24	32° 23' 45.833 N	103° 25' 28.731 W
15,100.0	90.00	0.00	11,250.0	3,100.3	767.6	11,763,296.08	2,126,520.76	32° 23' 46.823 N	103° 25' 28.731 W
15,200.0	90.00	0.00	11,250.0	3,200.3	767.6	11,763,396.07	2,126,519.29	32° 23' 47.812 N	103° 25' 28.731 W
15,300.0	90.00	0.00	11,250.0	3,300.3	767.6	11,763,496.06	2,126,517.82	32° 23' 48.802 N	103° 25' 28.731 W
15,400.0	90.00	0.00	11,250.0	3,400.3	767.6	11,763,596.05	2,126,516.35	32° 23' 49.792 N	103° 25' 28.731 W
15,500.0	90.00	0.00	11,250.0	3,500.3	767.6	11,763,696.04	2,126,514.88	32° 23' 50.781 N	103° 25' 28.731 W
15,600.0	90.00	0.00	11,250.0	3,600.3	767.6	11,763,796.03	2,126,513.41	32° 23' 51.771 N	103° 25' 28.731 W
15,700.0	90.00	0.00	11,250.0	3,700.3	767.6	11,763,896.02	2,126,511.94	32° 23' 52.760 N	103° 25' 28.731 W
15,800.0	90.00	0.00	11,250.0	3,800.3	767.6	11,763,996.01	2,126,510.47	32° 23' 53.750 N	103° 25' 28.731 W
15,900.0	90.00	0.00	11,250.0	3,900.3	767.6	11,764,096.00	2,126,509.00	32° 23' 54.740 N	103° 25' 28.731 W
16,000.0	90.00	0.00	11,250.0	4,000.3	767.6	11,764,195.99	2,126,507.53	32° 23' 55.729 N	103° 25' 28.731 W
16,100.0	90.00	0.00	11,250.0	4,100.3	767.6	11,764,295.97	2,126,506.06	32° 23' 56.719 N	103° 25' 28.731 W
16,200.0	90.00	0.00	11,250.0	4,200.3	767.6	11,764,395.96	2,126,504.59	32° 23' 57.709 N	103° 25' 28.731 W
16,300.0	90.00	0.00	11,250.0	4,300.3	767.6	11,764,495.95	2,126,503.12	32° 23' 58.698 N	103° 25' 28.731 W
16,400.0	90.00	0.00	11,250.0	4,400.3	767.6	11,764,595.94	2,126,501.64	32° 23' 59.688 N	103° 25' 28.731 W
16,500.0	90.00	0.00	11,250.0	4,500.3	767.6	11,764,695.93	2,126,500.17	32° 24' 0.677 N	103° 25' 28.731 W
16,600.0	90.00	0.00	11,250.0	4,600.3	767.6	11,764,795.92	2,126,498.70	32° 24' 1.667 N	103° 25' 28.731 W
16,700.0	90.00	0.00	11,250.0	4,700.3	767.6	11,764,895.91	2,126,497.23	32° 24' 2.657 N	103° 25' 28.731 W
16,800.0	90.00	0.00	11,250.0	4,800.3	767.6	11,764,995.90	2,126,495.76	32° 24' 3.646 N	103° 25' 28.731 W
16,900.0	90.00	0.00	11,250.0	4,900.3	767.6	11,765,095.89	2,126,494.29	32° 24' 4.636 N	103° 25' 28.731 W
17,000.0	90.00	0.00	11,250.0	5,000.3	767.6	11,765,195.88	2,126,492.82	32° 24' 5.625 N	103° 25' 28.731 W
17,100.0	90.00	0.00	11,250.0	5,100.3	767.6	11,765,295.87	2,126,491.35	32° 24' 6.615 N	103° 25' 28.731 W
17,200.0	90.00	0.00	11,250.0	5,200.3	767.6	11,765,395.86	2,126,489.88	32° 24' 7.605 N	103° 25' 28.731 W
17,300.0	90.00	0.00	11,250.0	5,300.3	767.6	11,765,495.84	2,126,488.41	32° 24' 8.594 N	103° 25' 28.731 W

LGC
Survey Report - Geographic

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well QUESO BLANCO 13 STATE COM 603H
Project:	LEA	TVD Reference:	RKB=3507.8+25 @ 3532.8usft
Site:	QUESO BLANCO	MD Reference:	RKB=3507.8+25 @ 3532.8usft
Well:	QUESO BLANCO 13 STATE COM 603H	North Reference:	True
Wellbore:	QUESO BLANCO 13 STATE COM 603H	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	Centennial EDM SQL Server

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,400.0	90.00	0.00	11,250.0	5,400.3	767.6	11,765,595.83	2,126,486.94	32° 24' 9.584 N	103° 25' 28.731 W
17,500.0	90.00	0.00	11,250.0	5,500.3	767.6	11,765,695.82	2,126,485.47	32° 24' 10.574 N	103° 25' 28.730 W
17,600.0	90.00	0.00	11,250.0	5,600.3	767.6	11,765,795.81	2,126,484.00	32° 24' 11.563 N	103° 25' 28.730 W
17,700.0	90.00	0.00	11,250.0	5,700.3	767.6	11,765,895.80	2,126,482.52	32° 24' 12.553 N	103° 25' 28.730 W
17,800.0	90.00	0.00	11,250.0	5,800.3	767.6	11,765,995.79	2,126,481.05	32° 24' 13.542 N	103° 25' 28.730 W
17,900.0	90.00	0.00	11,250.0	5,900.3	767.6	11,766,095.78	2,126,479.58	32° 24' 14.532 N	103° 25' 28.730 W
18,000.0	90.00	0.00	11,250.0	6,000.3	767.6	11,766,195.77	2,126,478.11	32° 24' 15.522 N	103° 25' 28.730 W
18,100.0	90.00	0.00	11,250.0	6,100.3	767.6	11,766,295.76	2,126,476.64	32° 24' 16.511 N	103° 25' 28.730 W
18,200.0	90.00	0.00	11,250.0	6,200.3	767.6	11,766,395.75	2,126,475.17	32° 24' 17.501 N	103° 25' 28.730 W
18,300.0	90.00	0.00	11,250.0	6,300.3	767.6	11,766,495.74	2,126,473.70	32° 24' 18.490 N	103° 25' 28.730 W
18,400.0	90.00	0.00	11,250.0	6,400.3	767.6	11,766,595.73	2,126,472.23	32° 24' 19.480 N	103° 25' 28.730 W
18,500.0	90.00	0.00	11,250.0	6,500.3	767.6	11,766,695.72	2,126,470.76	32° 24' 20.470 N	103° 25' 28.730 W
18,588.5	90.00	0.00	11,250.0	6,588.8	767.6	11,766,784.17	2,126,469.46	32° 24' 21.345 N	103° 25' 28.730 W

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - QUESO BLANCO - hit/miss target - Shape - Circle (radius 50.0)	0.00	0.00	11,259.8	-1,125.4	745.1	11,759,070.44	2,126,560.48	32° 23' 5.004 N	103° 25' 28.994 W
- plan misses target center by 455.7usft at 11132.4usft MD (11021.2 TVD, -773.0 N, 582.3 E)									
90° - QUESO BLANCO - plan misses target center by 9.8usft at 11663.2usft MD (11250.0 TVD, -330.6 N, 701.6 E) - Point	0.00	0.00	11,259.8	-330.6	701.6	11,759,864.51	2,126,505.29	32° 23' 12.869 N	103° 25' 29.501 W
LTP/BHL - QUESO BLAI - plan misses target center by 10.5usft at 18588.5usft MD (11250.0 TVD, 6588.8 N, 767.6 E) - Point	0.00	0.00	11,259.8	6,588.8	763.7	11,766,784.11	2,126,465.62	32° 24' 21.345 N	103° 25' 28.775 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,800.0	1,800.0	13 3/8"	13-3/8	17-1/2	
5,645.3	5,600.0	9 5/8"	9-5/8	12-1/4	
18,588.5	11,250.0	5 1/2"	5-1/2	8-1/2	

Checked By: _____	Approved By: _____	Date: _____
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