Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018	
Lease Serial No.	

BUREAU OF LAND MANA	AGEMENT	Γ		
APPLICATION FOR PERMIT TO D	RILL OR	REENTER	6. If Indian, Allotee or	Tribe Name
1a. Type of work: DRILL R	EENTER		7. If Unit or CA Agree	ment, Name and No.
1b. Type of Well: Oil Well Gas Well O	ther		8. Lease Name and We	II No
1c. Type of Completion: Hydraulic Fracturing Si	ngle Zone	Multiple Zone	o. Lease Ivalle and We	ii ivo.
	_	_	327860	
2 N CO 4			Q A DV WV II AV	
2. Name of Operator 373910			9. API Well No. 30-0 2	25-47055
3a. Address	3b. Phone N	No. (include area code)	10. Field and Pool, or I	Exploratory 9809
4. Location of Well (Report location clearly and in accordance v	 vith any State	requirements.*)	11. Sec., T. R. M. or Bl	k. and Survey or Area
At surface				
At proposed prod. zone				
14. Distance in miles and direction from nearest town or post offi	ce*		12. County or Parish	13. State
15. Distance from proposed*	16. No of ac	cres in lease 17. Space	ing Unit dedicated to this	well
location to nearest property or lease line, ft.				
(Also to nearest drig. unit line, if any)		12 20 27	(D) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propose	d Depth 20, BLM	I/BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will start*	23. Estimated duration	
	24. Attac	chments		
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Order No. 1, and the	Hydraulic Fracturing rule	per 43 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the operation Item 20 above).	ns unless covered by an ex	xisting bond on file (see
3. A Surface Use Plan (if the location is on National Forest System		5. Operator certification.		
SUPO must be filed with the appropriate Forest Service Office)-	6. Such other site specific info	rmation and/or plans as ma	ay be requested by the
25. Signature	Name	(Printed/Typed)	D	ate
Title				
Approved by (Signature)	Name	(Printed/Typed)	D	ate
Title	Office			
Application approval does not warrant or certify that the applicant	t holds legal	or equitable title to those rights	in the subject lease which	h would entitle the
applicant to conduct operations thereon. Conditions of approval, if any, are attached.				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m	nake it a crime	e for any person knowingly and	d willfully to make to any	department or agency
of the United States any false, fictitious or fraudulent statements				
GCP Rec 03/31/2020			1 Va	

APPROVED WITH CONDITIONS Approval Date: 03/30/2020

04/06/2020

SL

(Continued on page 2)

*(Instructions on page 2)



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/Escape 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 H_2S 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 H_2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H_2S 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.

Franklin Mountain Energy has conducted a review of offset operated wells to determine if an H_2S contingency plan is required for the proposed well. 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 H_2S contingency plan. This will be reevaluated during wellbore construction if H_2S is observed and after the well is on production.



Emergency Contact List:

Vladimir Roudakov, Drilling Engineer Cell 720 933 9784

Rachael Overbey, Project and Regulatory Director Cell 303 570 4057

Franklin Mountain Energy Afterhours Emergency Call Tree: 720-640-7517

EMERGENCY NUMBERS:

Agency	Telephone Number
BLM – Carlsbad Mainline	575-234-5972
BLM – Spill Emergency	575-234-6235
BLM – Engineering Emergency	575-361-2822
NMOCD District 1 – Hobbs Mainline	575-393-6161
NMOCD Emergency Line	575-370-3186
Wild Well Control	281-784-4700
H2S Emergency response:	
Air Ambulance New Mexico – Lea Co Reginal	575-391-2934
Lea County Sheriff's Department	575-396-3611
Fire Department:	
Carlsbad	575-885-3125
Artesia	575-746-5050
Lea County Regional Medical Center	575-492-5000
Jal Community Hospital	505-395-2511
Lea County Emergency Management	575-396-8602
Poison Control Center	800-222-1222



Golden Fed Com 704H

1. Geologic name of surface location: Permian

2. Estimated tops of important geological markers:

Formations	PROG SS	PROG TVD
Cenozoic Alluvium (surface)	3,375'	21'
Rustler	2,415'	981'
Salado	2,318'	1,078'
Base Salt	393'	3,003'
Lamar	-1,903'	5,299'
Bell Canyon	-2,007'	5,403'
Cherry Canyon	-2,913'	6,309'
Brushy Canyon	-4,255'	7,651'
Bone Spring Lime	-5,564'	8,960'
Avalon	-5,590'	8,986'
First Bone Spring Sand	-6,681'	10,077'
Second Bone Spring Carbonates	-6,849'	10,245'
Second Bone Spring Sand	-7,256'	10,652'
Third Bone Spring Carbonates	-7,780'	11,176'
Third Bone Spring Sand	-8,222'	11,618'
Wolfcamp	-8,582'	11,978'
HZ Target	-8,596'	11,992'
Wolfcamp A	-8,610'	12,006'
Wolfcamp B	-8,809'	12,205'

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

Upper Permian Sands	0- 400'	Fresh Water
Delaware Sands	5,403'	Oil
Rone Spring	10 077'	∩il

Bone Spring 10,077' Oil Wolfcamp 11,978' 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 1,300'and circulating cement back to surface.

4. Casing Program:

All casings strings will be run new. Preliminary plan is to set 7 5/8" string before entering Wolfcamp formation at 11,877'TVD/12,200'MD at 75° Inc due too potential overpressure.

Casing string	Weight	Grade	Burst	Collapse	Tension	Conn	Length	API design factor			
								Burst	Collapse	Tension	Coupling
Surface 13						втс					
3/8"	54.5	J-55	2730	1130	853	909	1300	1.18	1.67	4.99	5.32
Intermediate		HCL-				втс					
9 5/8"	40	80	7430	4230	916	1042	5400	1.72	1.67	2.90	3.30
						Stinger					



						, , _	•				
Intermediate 7 5/8"	29.7	HCP- 110	8280	7150	827	564	12200	1.09	1.25	1.79	1.22
Long string						Anaconda					
Long string 5 1/2"	20	P-110	12640	11080	641	577	21941	1.15	1.09	1.20	1.08

Cementing Program:

String	Hole	Cas	sing		Lea	ad					Tail			Excess
Туре	Size	Size	Setting	Sacks	Type of cmt	Yield	Water	тос	Sacks	Type of cmt	Yield	Water	тос	
			Depth			ft3/sk	gal/sk	ft		••	ft3/sk	gal/sk		
					Extenda Cem,					HalCem TM,				
Surf	17.5	13.375	1300	803	13.5 ppg Class C,	1.728	9.21	0	330	14.8	1.364	6.61	1000	100%
					4%					ppg, Class C,				
										2%				
					Bentonite,					CaCl2,				
					2%CaCl2,0.25pps Cello-Flake					0.25pps Celo-				
										Flake				
					Econocem TM,					HalCem TM,				
Int1	12.25	9.625	5400	1523	12.9 ppg, Class C	1.872	10.11	0	154	14.8	1.332	6.42	5100	100%
					50:50 Poz					ppg, Class C,				
										0.25 pps				
					Gel, 0.25 pps					Cello-				
					Cello-Flake, 5% Salt, 2% Sodium					Flake, 2%				
					3ait, 270 300iuiii					CalCl2				
					NeoCem, 9 ppg,					NeoCem				
Int2	8.5	7.625	12200	222	Class C 60:40 Poz Gel, 5%	3.501	14.21	4400	120	15 ppg, Class C	1.049	4.31	11200	50%
					GCI, 370					0.25 pps				
					Salt, 5pps LCM,					Cello-				
					0.25pps Cello- Flake					Flake, 2%				
										CalCl2				
					SoluCem, 15									
Prod	6.75	5.5	21941	410	ppg, 0.25 D-Air, 0.85% HR 601	2.619	11.3	11200						20%

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 %" 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 5,000/250 psig. The surface casing will be tested to 1500 psi for 30 minutes.



Before drilling out of the second intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/250 psig and the annular preventer to 5,000/250 psig. The second intermediate casing will be tested to 2000 psi for 30 minutes prior to drillout.

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	Туре	Weight (ppg)	Viscosity	Water Loss
0 – 1,300′	Fresh - Gel	8.6-8.8	28-34	N/c
1,300′ – 12,200′	Brine	8.8-10.2	28-34	N/c
12,200′ – 21,941′ Lateral	Oil Base	10.0-11.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 11 ppg. In order to maintain hole stability, mud weights up to 13.0 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 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 11,978' TVD (deepest point of the well) is 195F with an estimated maximum bottom-hole pressure (BHP) at the same point of 8,097 psig (based on 13 ppg MW). Hydrogen sulfate 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
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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. The 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 be 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, as per Onshore Order No. 2

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

After running the 2nd intermediate casing, and before drilling out, the wellhead, BOP, and related equipment will be tested to 10,000/250 psig.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cameron Multi-Bowl WH system has been sent to the BLM office in Carlsbad.

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 strings. After installation of the first intermediate string the pack-off and lower flanges will be pressure tested to 5000 psi. After installation of the second intermediate string, the pack-off and upper flange will be pressure tested to 10,000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.



14. Additional variance requests

A. Casing.

In order to minimize potential environmental and technical hazards, this well is planned with two intermediate strings of casing.

- 1. Variance is requested to wave the centralizer requirements for the 7 5/8" casing due to the tight clearance with 9 5/8" string.
- 2. Variance is requested to wave/reduce the centralizer requirements for the 5 $\frac{1}{2}$ " casing due to the tight clearance with 6 $\frac{3}{4}$ " hole and 5 $\frac{1}{2}$ " casing due to tight clearances.

B. Pressure control

- 1. Variance is requested to use a co-flex line between the BOP and the choke manifold instead of using a 4" OD steel line
- 2. Variance is requested to use a 5,000 psi WP Annular Preventor.

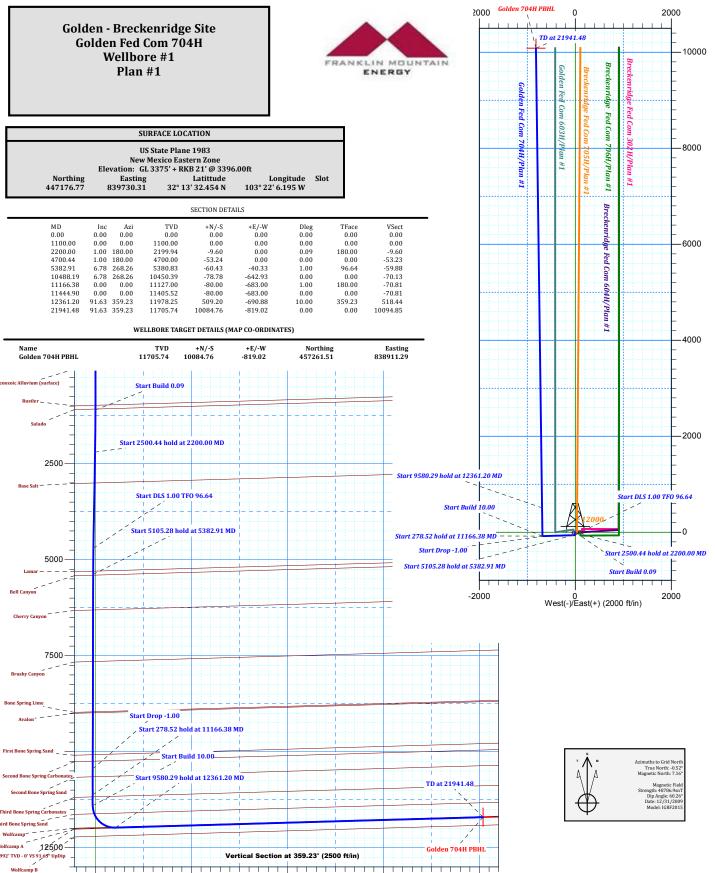
Franklin Mountain Energy

2500

5000

DrilTech, LLC





Franklin Mountain Energy

Golden - Breckenridge Site Lea County, NM (NAD 83) Golden Fed Com 704H

Wellbore #1

Plan: Plan #1

Standard Planning Report

08 July, 2019

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Well: Golden Fed Com 704H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Grid

Minimum Curvature

Project Golden - Breckenridge Site

Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Lea County, NM (NAD 83)

Northing: 447,177.09 usft Site Position: Latitude: 32° 13' 32.454 N From: Мар Easting: 839,765.30 usft Longitude: 103° 22' 5.788 W **Position Uncertainty:** 0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 0.51

Well Golden Fed Com 704H **Well Position** +N/-S -0.32 ft Northing: 447,176.77 usft Latitude: 32° 13' 32.454 N +E/-W -34.99 ft Easting: 839,730.31 usft Longitude: 103° 22' 6.195 W **Position Uncertainty** 0.00 ft Wellhead Elevation: Ground Level: 3,375.00 ft

Wellbore #1 Wellbore Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) 60.26 48,786.89411323 IGRF2015 12/31/2009 7.67

Design Plan #1 Audit Notes: Tie On Depth: Version: Phase: **PROTOTYPE** 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 359.23 0.00 0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
2,200.00	1.00	180.00	2,199.94	-9.60	0.00	0.09	0.09	0.00	180.00	
4,700.44	1.00	180.00	4,700.00	-53.24	0.00	0.00	0.00	0.00	0.00	
5,382.91	6.78	268.26	5,380.83	-60.43	-40.33	1.00	0.85	12.93	96.64	
10,488.19	6.78	268.26	10,450.40	-78.78	-642.93	0.00	0.00	0.00	0.00	
11,166.38	0.00	0.00	11,127.00	-80.00	-683.00	1.00	-1.00	0.00	180.00	
11,444.90	0.00	0.00	11,405.52	-80.00	-683.00	0.00	0.00	0.00	0.00	
12,361.20	91.63	359.23	11,978.25	509.20	-690.88	10.00	10.00	0.00	359.23	
21,941.48	91.63	359.23	11,705.74	10,084.76	-819.02	0.00	0.00	0.00	0.00	Golden 704H PBH

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Grid

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21.00		0.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00
Cenozoic A	Alluvium (surface)								
100.00		0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00		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	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00		0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00		0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00 800.00		0.00 0.00	700.00 800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
900.00		0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
981.00	0.00	0.00	981.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler	0.00	0.00	1 000 00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00 1.078.00		0.00 0.00	1,000.00 1,078.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Salado	0.00	0.00	1,070.00	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
Start Build		0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00		180.00	1,200.00	-0.08	0.00	-0.08	0.09	0.09	0.00
1,300.00		180.00 180.00	1,300.00	-0.32	0.00	-0.32	0.09 0.09	0.09 0.09	0.00 0.00
1,400.00 1,500.00		180.00	1,400.00 1,500.00	-0.71 -1.27	0.00 0.00	-0.71 -1.27	0.09	0.09	0.00
1,600.00		180.00	1,599.99	-1.98	0.00	-1.98	0.09	0.09	0.00
1,700.00 1,800.00	0.55 0.64	180.00 180.00	1,699.99 1,799.99	-2.86 -3.89	0.00 0.00	-2.86 -3.89	0.09 0.09	0.09 0.09	0.00 0.00
1,900.00		180.00	1,899.98	-5.08	0.00	-5.08	0.09	0.09	0.00
2,000.00		180.00	1,999.97	-6.43	0.00	-6.43	0.09	0.09	0.00
2,100.00	0.91	180.00	2,099.96	-7.93	0.00	-7.93	0.09	0.09	0.00
2,200.00		180.00	2,199.94	-9.60	0.00	-9.60	0.09	0.09	0.00
,	44 hold at 2200.00		2,199.94	-9.00	0.00	-9.00	0.09	0.09	0.00
2,300.00	1.00	180.00	2,299.93	-11.34	0.00	-11.34	0.00	0.00	0.00
2,400.00		180.00	2,399.91	-13.09	0.00	-13.09	0.00	0.00	0.00
2,500.00		180.00	2,499.90	-14.83	0.00	-14.83	0.00	0.00	0.00
2,600.00		180.00	2,599.88	-16.58	0.00	-16.58	0.00	0.00	0.00
2,700.00	1.00	180.00	2,699.87	-18.33	0.00	-18.32	0.00	0.00	0.00
2,800.00		180.00	2,799.85	-20.07	0.00	-20.07	0.00	0.00	0.00
2,900.00		180.00	2,899.84	-21.82	0.00	-21.81	0.00	0.00	0.00
3,000.00		180.00	2,999.82	-23.56	0.00	-23.56	0.00	0.00	0.00
3,003.85		180.00	3,003.67	-23.63	0.00	-23.63	0.00	0.00	0.00
Base Salt									
3,100.00	1.00	180.00	3,099.81	-25.31	0.00	-25.30	0.00	0.00	0.00
3,200.00		180.00	3,199.79	-27.05	0.00	-27.05	0.00	0.00	0.00
3,300.00	1.00	180.00	3,299.78	-28.80	0.00	-28.79	0.00	0.00	0.00
3,400.00		180.00	3,399.76	-30.54	0.00	-30.54	0.00	0.00	0.00
3,500.00	1.00	180.00	3,499.75	-32.29	0.00	-32.28	0.00	0.00	0.00
3,600.00	1.00	180.00	3,599.73	-34.03	0.00	-34.03	0.00	0.00	0.00
3,700.00		180.00	3,699.72	-35.78	0.00	-35.77	0.00	0.00	0.00
3,800.00		180.00	3,799.70	-37.52	0.00	-37.52	0.00	0.00	0.00
3,900.00		180.00	3,899.69	-39.27	0.00	-39.26	0.00	0.00	0.00
4,000.00	1.00	180.00	3,999.67	-41.01	0.00	-41.01	0.00	0.00	0.00
4,100.00	1.00	180.00	4,099.65	-42.76	0.00	-42.75	0.00	0.00	0.00
4,200.00		180.00	4,199.64	-44.50	0.00	-44.50	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft Grid

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.00	1.00	180.00	4,299.62	-46.25	0.00	-46.24	0.00	0.00	0.00
4,400.00	1.00	180.00	4,399.61	-47.99	0.00	-47.99	0.00	0.00	0.00
4,500.00	1.00	180.00	4,499.59	-49.74	0.00	-49.74	0.00	0.00	0.00
4,600.00	1.00	180.00	4,599.58	-51.48	0.00	-51.48	0.00	0.00	0.00
4,700.00	1.00	180.00	4,699.56	-53.23	0.00	-53.23	0.00	0.00	0.00
4,700.44	1.00	180.00	4,700.00	-53.24	0.00	-53.23	0.00	0.00	0.00
	00 TFO 96.64	100.00	4,700.00	00.Z-i	0.00	00.20	0.00	0.00	0.00
4,800.00	1.33	228.18	4,799.55	-54.88	-0.86	-54.86	1.00	0.33	48.39
4,900.00	2.13	248.80	4,899.50	-56.32	-3.45	-56.27	1.00	0.80	20.62
5,000.00	3.05	257.63	4,999.40	-57.56	-7.78	-57.45	1.00	0.92	8.83
5,100.00	4.00	262.30	5,099.21	-58.60	-13.83	-58.40	1.00	0.96	4.68
5,200.00	4.98	265.16	5,198.90	-59.43	-21.62	-59.13	1.00	0.97	2.86
5,300.00	5.96	267.08	5,298.44	-60.06	-31.13	-59.64	1.00	0.98	1.92
5,302.27	5.99	267.12	5,300.70	-60.07	-31.37	-59.65	1.00	0.99	1.60
Lamar									
5,382.91	6.78	268.26	5,380.83	-60.43	-40.33	-59.88	1.00	0.99	1.41
	8 hold at 5382.9								
5,400.00	6.78	268.26	5,397.81	-60.49	-42.34	-59.92	0.00	0.00	0.00
5,406.94	6.78	268.26	5,404.71	-60.51	-43.16	-59.93	0.00	0.00	0.00
Bell Canyon		000.00	F 407 44	00.05	54.45	00.40	0.00	0.00	0.00
5,500.00	6.78	268.26	5,497.11	-60.85	-54.15	-60.12	0.00	0.00	0.00
5,600.00	6.78	268.26	5,596.41	-61.21	-65.95	-60.32	0.00	0.00	0.00
5,700.00	6.78	268.26	5,695.71	-61.57	-77.75	-60.52	0.00	0.00	0.00
5,800.00	6.78	268.26	5,795.01	-61.93	-89.56	-60.72	0.00	0.00	0.00
5,900.00	6.78	268.26	5,894.31	-62.29	-101.36	-60.92	0.00	0.00	0.00
6,000.00	6.78	268.26	5,993.61	-62.65	-113.16	-61.12	0.00	0.00	0.00
6,100.00 6,200.00	6.78 6.78	268.26 268.26	6,092.91 6,192.21	-63.01 -63.37	-124.97 -136.77	-61.32 -61.52	0.00	0.00	0.00
6,300.00	6.78	268.26	6,291.51	-63.72	-148.57	-61.72	0.00	0.00	0.00
6,319.38	6.78	268.26	6,310.76	-63.79	-150.86	-61.76	0.00	0.00	0.00
6,400.00	6.78	268.26	6,390.81	-64.08	-160.38	-61.92	0.00	0.00	0.00
6,500.00	6.78	268.26	6,490.11	-64.44	-172.18	-62.12	0.00	0.00	0.00
6,600.00	6.78	268.26	6,589.41	-64.80	-183.99	-62.32	0.00	0.00	0.00
6,700.00	6.78	268.26	6,688.71	-65.16	-195.79	-62.53	0.00	0.00	0.00
6,800.00	6.78	268.26	6,788.01	-65.52	-207.59	-62.73	0.00	0.00	0.00
6,900.00	6.78	268.26	6,887.31	-65.88	-219.40	-62.93	0.00	0.00	0.00
7,000.00 7,100.00	6.78 6.78	268.26 268.26	6,986.61 7,085.91	-66.24 -66.60	-231.20 -243.00	-63.13 -63.33	0.00	0.00	0.00
7,200.00	6.78	268.26	7,185.21	-66.96	-254.81	-63.53	0.00	0.00	0.00
7,300.00	6.78	268.26	7,284.51	-67.32	-266.61	-63.73	0.00	0.00	0.00
7,400.00	6.78	268.26	7,383.82	-67.68	-278.41	-63.93	0.00	0.00	0.00
7,500.00	6.78	268.26	7,483.12	-68.04	-290.22	-64.13	0.00	0.00	0.00
7,600.00	6.78	268.26	7,582.42	-68.40	-302.02	-64.33	0.00	0.00	0.00
7,670.92	6.78	268.26	7,652.83	-68.65	-310.39	-64.47	0.00	0.00	0.00
Brushy Can		260.26	7 604 70	60.76	242.00	64.50	0.00	0.00	0.00
7,700.00	6.78	268.26	7,681.72	-68.76	-313.82	-64.53	0.00	0.00	0.00
7,800.00	6.78	268.26	7,781.02	-69.12	-325.63	-64.73	0.00	0.00	0.00
7,900.00	6.78	268.26	7,880.32	-69.48	-337.43	-64.93	0.00	0.00	0.00
8,000.00	6.78	268.26	7,979.62	-69.83	-349.23	-65.14	0.00	0.00	0.00
8,100.00	6.78	268.26	8,078.92	-70.19	-361.04	-65.34	0.00	0.00	0.00
8,200.00	6.78	268.26	8,178.22	-70.55	-372.84	-65.54	0.00	0.00	0.00
8,300.00	6.78	268.26	8,277.52	-70.91	-384.65	-65.74	0.00	0.00	0.00

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Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft Grid Minimum Curvature

11.	Fiail#1								
ed Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,400.00	6.78	268.26	8,376.82	-71.27	-396.45	-65.94	0.00	0.00	0.00
8,500.00 8,600.00	6.78 6.78	268.26 268.26	8,476.12 8,575.42	-71.63 -71.99	-408.25 -420.06	-66.14 -66.34	0.00 0.00	0.00 0.00	0.00 0.00
8,700.00 8,800.00	6.78 6.78	268.26 268.26	8,674.72 8,774.02	-72.35 -72.71	-431.86 -443.66	-66.54 -66.74	0.00 0.00	0.00 0.00	0.00 0.00
8,900.00	6.78	268.26	8,873.32	-73.07	-455.47	-66.94	0.00	0.00	0.00
8,989.22	6.78	268.26	8,961.91	-73.39	-466.00	-67.12	0.00	0.00	0.00
9,000.00 9,015.40	6.78 6.78	268.26 268.26	8,972.62 8,987.91	-73.43 -73.48	-467.27 -469.09	-67.14 -67.17	0.00	0.00 0.00	0.00
Avalon									
9,100.00 9,200.00	6.78 6.78	268.26 268.26	9,071.92 9,171.22	-73.79 -74.15	-479.07 -490.88	-67.34 -67.54	0.00 0.00	0.00 0.00	0.00 0.00
9,300.00 9,400.00	6.78 6.78	268.26 268.26	9,270.52 9,369.82	-74.51 -74.87	-502.68 -514.48	-67.75 -67.95	0.00 0.00	0.00 0.00	0.00 0.00
9,500.00	6.78	268.26	9,469.12	-75.23	-526.29	-68.15	0.00	0.00	0.00
9,600.00 9,700.00	6.78 6.78	268.26 268.26	9,568.42 9,667.72	-75.59 -75.95	-538.09 -549.89	-68.35 -68.55	0.00 0.00	0.00 0.00	0.00 0.00
9,800.00	6.78	268.26	9,767.02	-76.30	-561.70	-68.75	0.00	0.00	0.00
9,900.00 10,000.00	6.78 6.78	268.26 268.26	9,866.32 9,965.62	-76.66 -77.02	-573.50 -585.31	-68.95 -69.15	0.00 0.00	0.00 0.00	0.00 0.00
10,100.00 10,114.15	6.78 6.78	268.26 268.26	10,064.92 10,078.97	-77.38 -77.43	-597.11 -598.78	-69.35 -69.38	0.00 0.00	0.00 0.00	0.00 0.00
	Spring Sand	200.20	10,076.97	-77.43	-390.70	-09.30	0.00	0.00	0.00
10,200.00 10,283.34	6.78 6.78	268.26 268.26	10,164.22 10,246.98	-77.74 -78.04	-608.91 -618.75	-69.55 -69.72	0.00 0.00	0.00 0.00	0.00 0.00
	ne Spring Carbor								
10,300.00 10,400.00	6.78 6.78	268.26 268.26	10,263.52 10,362.82	-78.10 -78.46	-620.72 -632.52	-69.75 -69.95	0.00	0.00	0.00 0.00
10,488.19 Start Drop -	6.78 1.00	268.26	10,450.40	-78.78	-642.93	-70.13	0.00	0.00	0.00
10,500.00	6.66	268.26	10,462.13	-78.82	-644.31	-70.15	1.00	-1.00	0.00
10,600.00 10,692.84	5.66 4.74	268.26 268.26	10,561.55 10,654.01	-79.15 -79.40	-655.04 -663.45	-70.34 -70.48	1.00 1.00	-1.00 -1.00	0.00 0.00
Second Bor	ne Spring Sand								
10,700.00 10,800.00	4.66 3.66	268.26 268.26	10,661.14 10,760.87	-79.42 -79.64	-664.04 -671.30	-70.49 -70.61	1.00 1.00	-1.00 -1.00	0.00 0.00
10,900.00 11,000.00	2.66 1.66	268.26 268.26	10,860.72 10,960.65	-79.81 -79.93	-676.81 -680.59	-70.71 -70.77	1.00 1.00	-1.00 -1.00	0.00 0.00
11,100.00 11,166.38	0.66 0.00	268.26 0.00	11,060.63 11,127.00	-79.99 -80.00	-682.62 -683.00	-70.81 -70.81	1.00 1.00	-1.00 -1.00	0.00 0.00
	hold at 11166.38		,						
11,200.00	0.00	0.00	11,160.62	-80.00	-683.00	-70.81	0.00	0.00	0.00
11,217.39	0.00	0.00	11,178.02	-80.00	-683.00	-70.81	0.00	0.00	0.00
11,300.00	Spring Carbonat 0.00	0.00	11,260.62	-80.00	-683.00	-70.81	0.00	0.00	0.00
11,400.00	0.00	0.00	11,360.62	-80.00	-683.00	-70.81	0.00	0.00	0.00
11,444.90	0.00	0.00	11,405.52	-80.00	-683.00	-70.81	0.00	0.00	0.00
Start Build 11,500.00	10.00 5.51	359.23	11,460.54	-77.35	-683.04	-68.17	10.00	10.00	0.00
11,600.00 11,663.48	15.51 21.86	359.23 359.23	11,558.74 11,618.84	-59.13 -38.81	-683.28 -683.55	-49.95 -29.62	10.00 10.00	10.00 10.00	0.00 0.00

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ed Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
		()	()	(14)	(1.7)	(-)	(,	(,	(,
	e Spring Sand	250.00	44 050 00	04.44	C00 7F	44.05	40.00	40.00	0.00
11,700.00		359.23	11,652.28	-24.14	-683.75	-14.95	10.00	10.00	0.00
11,800.00		359.23	11,738.32	26.56	-684.43	35.75	10.00	10.00	0.00
11,900.00	45.51	359.23	11,814.26	91.43	-685.29	100.63	10.00	10.00	0.00
12,000.00	55.51	359.23	11,877.77	168.50	-686.33	177.70	10.00	10.00	0.00
12,100.00		359.23	11,926.93	255.42	-687.49	264.64	10.00	10.00	0.00
12,100.00		359.23	11,960.25	349.56	-688.75	358.79	10.00	10.00	0.00
12,229.83		359.23	11,966.96	378.62	-689.14	387.85	10.00	10.00	0.00
Wolfcamp									
12,300.00	85.51	359.23	11,976.72	448.06	-690.07	457.29	10.00	10.00	0.00
12,327.35	88.25	359.23	11,978.21	475.37	-690.43	484.60	10.00	10.00	0.00
	O - 0' VS 91.63° Up		,						
12,361.20		359.23	11,978.25	509.20	-690.88	518.44	10.00	10.00	0.00
	.29 hold at 12361.		11,010.20	000.20	000.00	010.11	10.00	10.00	0.00
12,400.00		359.23	11,977.14	547.99	-691.40	557.23	0.00	0.00	0.00
,								0.00	0.00
12,500.00		359.23	11,974.30	647.94	-692.74	657.19	0.00		
12,600.00	91.63	359.23	11,971.45	747.89	-694.08	757.15	0.00	0.00	0.00
12,700.00	91.63	359.23	11,968.61	847.84	-695.42	857.11	0.00	0.00	0.00
12,800.00	91.63	359.23	11,965.77	947.79	-696.75	957.07	0.00	0.00	0.00
12,900.00	91.63	359.23	11,962.92	1,047.74	-698.09	1,057.03	0.00	0.00	0.00
13,000.00	91.63	359.23	11,960.08	1,147.69	-699.43	1,156.99	0.00	0.00	0.00
13,100.00		359.23	11,957.23	1,247.64	-700.77	1,256.95	0.00	0.00	0.00
						4.050.04			
13,200.00		359.23	11,954.39	1,347.59	-702.10	1,356.91	0.00	0.00	0.00
13,300.00		359.23	11,951.54	1,447.54	-703.44	1,456.87	0.00	0.00	0.00
13,400.00		359.23	11,948.70	1,547.49	-704.78	1,556.83	0.00	0.00	0.00
13,500.00		359.23	11,945.85	1,647.45	-706.12	1,656.79	0.00	0.00	0.00
13,600.00	91.63	359.23	11,943.01	1,747.40	-707.45	1,756.75	0.00	0.00	0.00
13,700.00	91.63	359.23	11,940.16	1,847.35	-708.79	1,856.70	0.00	0.00	0.00
13,800.00	91.63	359.23	11,937.32	1,947.30	-710.13	1,956.66	0.00	0.00	0.00
13,900.00	91.63	359.23	11,934.48	2,047.25	-711.47	2,056.62	0.00	0.00	0.00
14,000.00		359.23	11,931.63	2,147.20	-712.80	2,156.58	0.00	0.00	0.00
14,100.00		359.23	11,928.79	2,247.15	-714.14	2,256.54	0.00	0.00	0.00
14,200.00		359.23	11,925.94	2,347.10	-715.48	2,356.50	0.00	0.00	0.00
14,300.00		359.23	11,923.10	2,447.05	-716.82	2,456.46	0.00	0.00	0.00
14,400.00		359.23	11,920.25	2,547.00	-718.15	2,556.42	0.00	0.00	0.00
14,500.00		359.23	11,917.41	2,646.95	-719.49	2,656.38	0.00	0.00	0.00
14,600.00	91.63	359.23	11,914.56	2,746.90	-720.83	2,756.34	0.00	0.00	0.00
14,700.00	91.63	359.23	11,911.72	2,846.85	-722.17	2,856.30	0.00	0.00	0.00
14,800.00		359.23	11,908.87	2,946.80	-723.50	2,956.26	0.00	0.00	0.00
14,900.00	91.63	359.23	11,906.03	3,046.75	-724.84	3,056.22	0.00	0.00	0.00
15,000.00		359.23	11,903.19	3,146.70	-726.18	3,156.18	0.00	0.00	0.00
15,100.00		359.23	11,900.34	3,246.65	-727.52	3,256.14	0.00	0.00	0.00
*									
15,200.00		359.23	11,897.50	3,346.61	-728.85	3,356.10	0.00	0.00	0.00
15,300.00		359.23	11,894.65	3,446.56	-730.19	3,456.06	0.00	0.00	0.00
15,400.00		359.23	11,891.81	3,546.51	-731.53	3,556.02	0.00	0.00	0.00
15,500.00		359.23	11,888.96	3,646.46	-732.87	3,655.98	0.00	0.00	0.00
15,600.00	91.63	359.23	11,886.12	3,746.41	-734.20	3,755.94	0.00	0.00	0.00
15,700.00	91.63	359.23	11,883.27	3,846.36	-735.54	3,855.90	0.00	0.00	0.00
15,800.00		359.23	11,880.43	3,946.31	-736.88	3,955.86	0.00	0.00	0.00
15,900.00		359.23	11,877.59	4,046.26	-738.22	4,055.81	0.00	0.00	0.00
16,000.00		359.23	11,874.74	4,146.21	-739.55	4,155.77	0.00	0.00	0.00
16,100.00		359.23	11,871.90	4,246.16	-740.89	4,155.77	0.00	0.00	0.00
16,200.00	91.63	359.23	11,869.05	4,346.11	-742.23	4,355.69	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

sigii.	riaii#i								
lanned Survey									
Measured Depth (ft)	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
(11)	(°)	(°)	(ft)	(ft)	(ft)	(11)	(710011)	(710011)	(/ 10011)
16,300.00	91.63	359.23	11,866.21	4,446.06	-743.57	4,455.65	0.00	0.00	0.00
16,400.00	91.63	359.23	11,863.36	4,546.01	-744.90	4,555.61	0.00	0.00	0.00
16,500.00	91.63	359.23	11,860.52	4,645.96	-746.24	4,655.57	0.00	0.00	0.00
16,600.00	91.63	359.23	11,857.67	4,745.91	-747.58	4,755.53	0.00	0.00	0.00
16 700 00	91.63	250.22	11,854.83	4,845.86	-748.92	4 OFF 40	0.00	0.00	0.00
16,700.00		359.23	,	,		4,855.49			
16,800.00	91.63	359.23	11,851.98	4,945.81	-750.25	4,955.45	0.00	0.00	0.00
16,900.00	91.63	359.23	11,849.14	5,045.77	-751.59	5,055.41	0.00	0.00	0.00
17,000.00	91.63	359.23	11,846.30	5,145.72	-752.93	5,155.37	0.00	0.00	0.00
17,100.00	91.63	359.23	11,843.45	5,245.67	-754.27	5,255.33	0.00	0.00	0.00
17,200.00	91.63	359.23	11,840.61	5,345.62	-755.60	5,355.29	0.00	0.00	0.00
17,300.00	91.63	359.23	11,837.76	5,445.57	-756.94	5,455.25	0.00	0.00	0.00
17,400.00	91.63	359.23	11,834.92	5,545.52	-758.28	5,555.21	0.00	0.00	0.00
17,500.00	91.63	359.23	11,832.07	5,645.47	-759.62	5,655.17	0.00	0.00	0.00
17,600.00	91.63	359.23	11,829.23	5,745.42	-760.95	5,755.13	0.00	0.00	0.00
,									
17,700.00	91.63	359.23	11,826.38	5,845.37	-762.29	5,855.09	0.00	0.00	0.00
17,800.00	91.63	359.23	11,823.54	5,945.32	-763.63	5,955.05	0.00	0.00	0.00
17,900.00	91.63	359.23	11,820.70	6,045.27	-764.97	6,055.01	0.00	0.00	0.00
18,000.00	91.63	359.23	11,817.85	6,145.22	-766.30	6,154.96	0.00	0.00	0.00
18,100.00	91.63	359.23	11,815.01	6,245.17	-767.64	6,254.92	0.00	0.00	0.00
18,200.00	91.63	359.23	11,812.16	6,345.12	-768.98	6,354.88	0.00	0.00	0.00
18,300.00	91.63	359.23	11,809.32	6,445.07	-770.32	6,454.84	0.00	0.00	0.00
18,400.00	91.63	359.23	11,806.47	6,545.02	-771.65	6,554.80	0.00	0.00	0.00
18,500.00	91.63	359.23	11,803.63	6,644.97	-772.99	6,654.76	0.00	0.00	0.00
18,600.00	91.63	359.23	11,800.78	6,744.93	-774.33	6,754.72	0.00	0.00	0.00
10,000.00	31.03		11,000.70			0,734.72			
18,700.00	91.63	359.23	11,797.94	6,844.88	-775.67	6,854.68	0.00	0.00	0.00
18,800.00	91.63	359.23	11,795.09	6,944.83	-777.00	6,954.64	0.00	0.00	0.00
18,900.00	91.63	359.23	11,792.25	7,044.78	-778.34	7,054.60	0.00	0.00	0.00
19,000.00	91.63	359.23	11,789.41	7,144.73	-779.68	7,154.56	0.00	0.00	0.00
19,100.00	91.63	359.23	11,786.56	7,244.68	-781.02	7,254.52	0.00	0.00	0.00
19,200.00	91.63	359.23	11,783.72	7,344.63	-782.35	7,354.48	0.00	0.00	0.00
19,300.00	91.63	359.23	11,780.87	7,444.58	-783.69	7,454.44	0.00	0.00	0.00
19,400.00	91.63	359.23	11,778.03	7,544.53	-785.03	7,554.40	0.00	0.00	0.00
					-786.37		0.00	0.00	
19,500.00	91.63	359.23	11,775.18	7,644.48		7,654.36			0.00
19,600.00	91.63	359.23	11,772.34	7,744.43	-787.70	7,754.32	0.00	0.00	0.00
19,700.00	91.63	359.23	11,769.49	7,844.38	-789.04	7,854.28	0.00	0.00	0.00
19,800.00	91.63	359.23	11,766.65	7,944.33	-790.38	7,954.24	0.00	0.00	0.00
19,900.00	91.63	359.23	11,763.81	8,044.28	-791.72	8,054.20	0.00	0.00	0.00
20,000.00	91.63	359.23	11,760.96	8,144.23	-793.05	8,154.16	0.00	0.00	0.00
20,100.00	91.63	359.23	11,758.12	8,244.18	-794.39	8,254.12	0.00	0.00	0.00
20 200 00	04.62	350.33	11 755 97	0 2// 12	705 72	Q 3E4 07	0.00	0.00	0.00
20,200.00 20,300.00	91.63	359.23 359.23	11,755.27 11,752.43	8,344.13	-795.73 -797.07	8,354.07 8,454.03	0.00	0.00	0.00
	91.63			8,444.09		,	0.00		0.00
20,400.00	91.63	359.23	11,749.58	8,544.04	-798.40	8,553.99	0.00	0.00	0.00
20,500.00	91.63	359.23	11,746.74	8,643.99	-799.74	8,653.95	0.00	0.00	0.00
20,600.00	91.63	359.23	11,743.89	8,743.94	-801.08	8,753.91	0.00	0.00	0.00
20,700.00	91.63	359.23	11,741.05	8,843.89	-802.42	8,853.87	0.00	0.00	0.00
20,800.00	91.63	359.23	11,738.20	8,943.84	-803.75	8,953.83	0.00	0.00	0.00
20,900.00	91.63	359.23	11,735.36	9,043.79	-805.09	9,053.79	0.00	0.00	0.00
21,000.00	91.63	359.23	11,732.52	9,143.74	-806.43	9,153.75	0.00	0.00	0.00
21,100.00	91.63	359.23	11,729.67	9,243.69	-807.77	9,253.71	0.00	0.00	0.00
21,200.00	91.63	359.23	11,726.83	9,343.64	-809.10	9,353.67	0.00	0.00	0.00
21,300.00	91.63	359.23	11,723.98	9,443.59	-810.44	9,453.63	0.00	0.00	0.00
21,400.00	91.63	359.23	11,721.14	9,543.54	-811.78	9,553.59	0.00	0.00	0.00
21,500.00	91.63	359.23	11,718.29	9,643.49	-813.12	9,653.55	0.00	0.00	0.00
21,600.00	91.63	359.23	11,715.45	9,743.44	-814.45	9,753.51	0.00	0.00	0.00

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Design: Golden Fed Com 704H Wellbore #1 Plan #1 Local Co-ordinate Reference: TVD Reference: MD Reference:

Survey Calculation Method:

North Reference:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Grid

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,700.00	91.63	359.23	11,712.60	9.843.39	-815.79	9,853.47	0.00	0.00	0.00
21,800.00	91.63	359.23	11,709.76	9,943.34	-817.13	9,953.43	0.00	0.00	0.00
21,900.00	91.63	359.23	11,706.92	10,043.29	-818.47	10,053.39	0.00	0.00	0.00
21.941.48	91.63	359.23	11.705.74	10,084.76	-819.02	10.094.85	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Golden 704H PBHL - plan hits target cer - Point	0.00 nter	0.00	11,705.74	10,084.76	-819.02	457,261.51	838,911.29	32° 15' 12.312 N	103° 22' 14.677 W

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	21.00	21.00	Cenozoic Alluvium (surface)		-1.63	359.23	
	981.00	981.00	Rustler		-1.63	359.23	
	1,078.00	1,078.00	Salado		-1.63	359.23	
	3,003.85	3,003.67	Base Salt		-1.63	359.23	
	5,302.27	5,300.70	Lamar		-1.63	359.23	
	5,406.94	5,404.71	Bell Canyon		-1.63	359.23	
	6,319.38	6,310.76	Cherry Canyon		-1.63	359.23	
	7,670.92	7,652.83	Brushy Canyon		-1.63	359.23	
	8,989.22	8,961.91	Bone Spring Lime		-1.63	359.23	
	9,015.40	8,987.91	Avalon		-1.63	359.23	
	10,114.15	10,078.97	First Bone Spring Sand		-1.63	359.23	
	10,283.34	10,246.98	Second Bone Spring Carbonates		-1.63	359.23	
	10,692.84	10,654.01	Second Bone Spring Sand		-1.63	359.23	
	11,217.39	11,178.02	Third Bone Spring Carbonates		-1.63	359.23	
	11,663.48	11,618.84	Third Bone Spring Sand		-1.63	359.23	
	12,229.83	11,966.96	Wolfcamp		-1.63	359.23	
	12,327.35	11,978.21	11992' TVD - 0' VS 91.63° UpDip		-1.63	359.23	

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Grid

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,100.00	1,100.00	0.00	0.00	Start Build 0.09
2,200.00	2,199.94	-9.60	0.00	Start 2500.44 hold at 2200.00 MD
4,700.44	4,700.00	-53.24	0.00	Start DLS 1.00 TFO 96.64
5,382.91	5,380.83	-60.43	-40.33	Start 5105.28 hold at 5382.91 MD
10,488.19	10,450.40	-78.78	-642.93	Start Drop -1.00
11,166.38	11,127.00	-80.00	-683.00	Start 278.52 hold at 11166.38 MD
11,444.90	11,405.52	-80.00	-683.00	Start Build 10.00
12,361.20	11,978.25	509.20	-690.88	Start 9580.29 hold at 12361.20 MD
21,941.48	11,705.74	10,084.76	-819.02	TD at 21941.48

Franklin Mountain Energy

Golden - Breckenridge Site Lea County, NM (NAD 83) Golden Fed Com 704H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

08 July, 2019

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Lea County, NM (NAD 83) Site: Well:

Golden Fed Com 704H

Wellbore #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Minimum Curvature

Project Golden - Breckenridge Site

Plan #1

Wellbore:

Design:

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

Map Zone: New Mexico Eastern Zone System Datum:

Mean Sea Level

Site Lea County, NM (NAD 83)

Northing: 447,177.09 usft Site Position: Latitude: 32° 13' 32.454 N 839,765.30 usft 103° 22' 5.788 W Easting: Мар Longitude: From: Position Uncertainty: 0.00 ft Slot Radius: 0.51 13.200 in **Grid Convergence:**

Well Golden Fed Com 704H **Well Position** +N/-S 0.00 ft Northing: 447,176.77 usft Latitude: 32° 13' 32.454 N +E/-W 0.00 ft Easting: 839,730.31 usft Longitude: 103° 22' 6.195 W 0.00 ft Wellhead Elevation: Ground Level: **Position Uncertainty** 3,375.00 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2015 12/31/2009 7.67 60.26 48,786.89411323

Plan #1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 359.23

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	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	
2,200.00	1.00	180.00	2,199.94	-9.60	0.00	0.09	0.09	0.00	180.00	
4,700.44	1.00	180.00	4,700.00	-53.24	0.00	0.00	0.00	0.00	0.00	
5,382.91	6.78	268.26	5,380.83	-60.43	-40.33	1.00	0.85	12.93	96.64	
10,488.19	6.78	268.26	10,450.40	-78.78	-642.93	0.00	0.00	0.00	0.00	
11,166.38	0.00	0.00	11,127.00	-80.00	-683.00	1.00	-1.00	0.00	180.00	
11,444.90	0.00	0.00	11,405.52	-80.00	-683.00	0.00	0.00	0.00	0.00	
12,361.20	91.63	359.23	11,978.25	509.20	-690.88	10.00	10.00	0.00	359.23	
21,941.48	91.63	359.23	11,705.74	10,084.76	-819.02	0.00	0.00	0.00	0.00	Golden 704H PBH

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Planned Survey	1								
Measured			Vertical			Мар	Мар		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	447,176.77	839,730.31	32° 13' 32.454 N	103° 22' 6.195 W
21.00	0.00	0.00	21.00	0.00	0.00	447,176.77	839,730.31	32° 13' 32.454 N	103° 22' 6.195 W
Cenozoi	c Alluvium (sı	urface)							
100.00	0.00	0.00	100.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
200.00	0.00	0.00	200.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
300.00	0.00	0.00	300.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
400.00	0.00	0.00	400.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
500.00	0.00	0.00	500.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
600.00	0.00	0.00	600.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
700.00	0.00	0.00	700.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
800.00	0.00	0.00	800.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
900.00	0.00	0.00	900.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
981.00	0.00	0.00	981.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	447,176.77	839,730.31	32° 13′ 32.454 N	103° 22' 6.195 W
1,078.00	0.00	0.00	1,078.00	0.00	0.00	447,176.77	839,730.31	32° 13' 32.454 N	103° 22' 6.195 W
Salado									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	447,176.77	839,730.31	32° 13' 32.454 N	103° 22' 6.195 W
Start Bu	ild 0.09								
1,200.00	0.09	180.00	1,200.00	-0.08	0.00	447,176.69	839,730.31	32° 13′ 32.453 N	103° 22' 6.195 W
1,300.00	0.18	180.00	1,300.00	-0.32	0.00	447,176.46	839,730.31	32° 13′ 32.451 N	103° 22' 6.195 W
1,400.00	0.27	180.00	1,400.00	-0.71	0.00	447,176.06	839,730.31	32° 13′ 32.447 N	103° 22' 6.195 W
1,500.00	0.36	180.00	1,500.00	-1.27	0.00	447,175.50	839,730.31	32° 13′ 32.442 N	103° 22' 6.195 W
1,600.00	0.45	180.00	1,599.99	-1.98	0.00	447,174.79	839,730.31	32° 13′ 32.434 N	103° 22' 6.195 W
1,700.00	0.55	180.00	1,699.99	-2.86	0.00	447,173.92	839,730.31	32° 13′ 32.426 N	103° 22' 6.196 W
1,800.00	0.64	180.00	1,799.99	-3.89	0.00	447,172.89	839,730.31	32° 13' 32.416 N	103° 22' 6.196 W
1,900.00	0.73	180.00	1,899.98	-5.08	0.00	447,171.70	839,730.31	32° 13′ 32.404 N	103° 22' 6.196 W
2,000.00	0.82	180.00	1,999.97	-6.43	0.00	447,170.35	839,730.31	32° 13′ 32.391 N	103° 22' 6.196 W
2,100.00	0.91	180.00	2,099.96	-7.93	0.00	447,168.84	839,730.31	32° 13′ 32.376 N	103° 22' 6.196 W
2,200.00	1.00	180.00	2,199.94	-9.60	0.00	447,167.17	839,730.31	32° 13′ 32.359 N	103° 22' 6.196 W
Start 250	00.44 hold at 2	2200.00 MD							
2,300.00	1.00	180.00	2,299.93	-11.34	0.00	447,165.43	839,730.31	32° 13′ 32.342 N	103° 22' 6.196 W
2,400.00	1.00	180.00	2,399.91	-13.09	0.00	447,163.68	839,730.31	32° 13′ 32.325 N	103° 22' 6.197 W
2,500.00	1.00	180.00	2,499.90	-14.83	0.00	447,161.94	839,730.31	32° 13′ 32.307 N	103° 22' 6.197 W
2,600.00	1.00	180.00	2,599.88	-16.58	0.00	447,160.19	839,730.31	32° 13′ 32.290 N	103° 22' 6.197 W
2,700.00	1.00	180.00	2,699.87	-18.33	0.00	447,158.45	839,730.31	32° 13' 32.273 N	103° 22' 6.197 W
2,800.00	1.00	180.00	2,799.85	-20.07	0.00	447,156.70	839,730.31	32° 13′ 32.256 N	103° 22' 6.197 W
2,900.00	1.00	180.00	2,899.84	-21.82	0.00	447,154.96	839,730.31	32° 13′ 32.238 N	103° 22' 6.198 W
3,000.00	1.00	180.00	2,999.82	-23.56	0.00	447,153.21	839,730.31	32° 13′ 32.221 N	103° 22' 6.198 W
3,003.85	1.00	180.00	3,003.67	-23.63	0.00	447,153.14	839,730.31	32° 13′ 32.220 N	103° 22' 6.198 W
Base Sa									
3,100.00		180.00	3,099.81	-25.31	0.00	447,151.47	839,730.31	32° 13′ 32.204 N	103° 22' 6.198 W
3,200.00		180.00	3,199.79	-27.05	0.00	447,149.72	839,730.31	32° 13′ 32.186 N	103° 22' 6.198 W
3,300.00	1.00	180.00	3,299.78	-28.80	0.00	447,147.98	839,730.31	32° 13′ 32.169 N	103° 22' 6.198 W
3,400.00	1.00	180.00	3,399.76	-30.54	0.00	447,146.23	839,730.31	32° 13′ 32.152 N	103° 22' 6.198 W
3,500.00	1.00	180.00	3,499.75	-32.29	0.00	447,144.49	839,730.31	32° 13′ 32.135 N	103° 22' 6.199 W
3,600.00	1.00	180.00	3,599.73	-34.03	0.00	447,142.74	839,730.31	32° 13' 32.117 N	103° 22' 6.199 W
3,700.00	1.00	180.00	3,699.72	-35.78	0.00	447,141.00	839,730.31	32° 13′ 32.100 N	103° 22' 6.199 W
3,800.00	1.00	180.00	3,799.70	-37.52	0.00	447,139.25	839,730.31	32° 13′ 32.083 N	103° 22' 6.199 W
3,900.00	1.00	180.00	3,899.69	-39.27	0.00	447,137.50	839,730.31	32° 13' 32.066 N	103° 22' 6.199 W
4,000.00	1.00	180.00	3,999.67	-41.01	0.00	447,135.76	839,730.31	32° 13' 32.048 N	103° 22' 6.200 W
4,100.00	1.00	180.00	4,099.65	-42.76	0.00	447,134.01	839,730.31	32° 13' 32.031 N	103° 22' 6.200 W
4,200.00		180.00	4,199.64	-44.50	0.00	447,132.27	839,730.31	32° 13′ 32.014 N	103° 22' 6.200 W
4,300.00	1.00	180.00	4,299.62	-46.25	0.00	447,130.52	839,730.31	32° 13' 31.996 N	103° 22' 6.200 W

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

103° 22' 10.680 W

103° 22' 10.817 W

103° 22' 10.955 W

Grid Minimum Curvature

Planned Survey Measured Vertical Map Map Depth Northing Easting Depth Inclination Azimuth +N/-S +E/-W (ft) (ft) (usft) (usft) (°) (°) (ft) (ft) Latitude Longitude 103° 22' 6.200 W 4,400.00 1 00 180.00 4 399 61 -47 99 0.00 447,128.78 839.730.31 32° 13' 31 979 N 4,500.00 1.00 180.00 4,499.59 -49.74 0.00 447,127.03 839,730.31 32° 13' 31.962 N 103° 22' 6.200 W 4,600.00 1.00 180.00 4,599.58 -51.48 0.00 447,125.29 839,730.31 103° 22' 6.201 W 32° 13' 31.945 N 32° 13' 31.927 N 103° 22' 6.201 W 4,700.00 1.00 180.00 4.699.56 -53.230.00 447.123.54 839.730.31 180.00 4,700.00 -53.24 447,123.54 839,730.31 32° 13' 31.927 N 103° 22' 6.201 W 4.700.44 1.00 0.00 Start DLS 1.00 TFO 96.64 103° 22' 6.211 W 4,800.00 1.33 228.18 4,799.55 -54.88 -0.86447,121.90 839,729.45 32° 13' 31.911 N 4,900.00 2.13 248.80 4,899.50 -56.32 -3.45447,120.45 839,726.86 32° 13' 31.897 N 103° 22' 6.241 W 4 999 40 -57 56 447 119 21 839 722 53 32° 13' 31 885 N 103° 22' 6 292 W 5 000 00 3.05 257 63 -7 78 5,100.00 4 00 262 30 5,099.21 -58 60 -13.83 447,118.18 839,716.48 32° 13' 31.876 N 103° 22' 6.362 W 5,200.00 4.98 265 16 5,198.90 -59 43 -21.62 447,117.34 839,708.69 32° 13' 31.868 N 103° 22' 6.453 W 5,298.44 -31 13 5.96 267 08 -60.06 447 116 71 32° 13' 31.863 N 103° 22' 6 564 W 5.300.00 839 699 18 5,302.27 5.99 267.12 5,300.70 -60.07 -31.37 447,116.70 839,698.94 32° 13' 31.863 N 103° 22' 6.567 W Lamar 5.382.91 6.78 268.26 5,380.83 -60.43 -40.33 447,116.34 839,689.98 32° 13' 31.860 N 103° 22' 6.671 W Start 5105.28 hold at 5382.91 MD 5,400.00 6.78 268 26 5,397.81 -60.49 -42.34447,116.28 839,687.97 32° 13' 31.859 N 103° 22' 6.694 W 6.78 268 26 5,404.71 447,116.26 839.687.15 32° 13' 31.859 N 103° 22' 6.704 W 5.406.94 -60.51-43.16**Bell Canvon** 268 26 32° 13' 31.857 N 6 78 5 497 11 -60.85 -54 15 447 115 92 839 676 16 103° 22' 6 832 W 5.500.00 5,600.00 6.78 268 26 5,596.41 -61.21 -65.95 447,115.56 839,664.36 32° 13' 31.854 N 103° 22' 6.969 W 5,700.00 6.78 268.26 5,695.71 -61.57 -77.75 447,115.20 839,652.56 32° 13' 31.852 N 103° 22' 7.107 W 5 800 00 6.78 268 26 5.795.01 -61.93 -89.56 447 114 85 839.640.75 32° 13' 31.849 N 103° 22' 7.244 W 5,900.00 6.78 268.26 5,894.31 -62.29 -101.36 447,114.49 839,628.95 32° 13' 31.847 N 103° 22' 7.382 W 268.26 5,993.61 447,114.13 839,617.14 103° 22' 7.519 W 6.000.00 6.78 -62.65 -113.16 32° 13' 31.844 N 6.100.00 6.78 268 26 6.092.91 -63.01 -124.97447.113.77 839.605.34 32° 13' 31.842 N 103° 22' 7.656 W 268.26 -136.77 6 200 00 6 78 6 192 21 -63 37 447 113 41 839 593 54 32° 13' 31 839 N 103° 22' 7 794 W 6.300.00 6.78 268.26 6.291.51 -63.72-148.57447.113.05 839.581.73 32° 13' 31.837 N 103° 22' 7.931 W 6,319.38 6.78 268.26 6,310.76 -63.79 -150.86 447,112.98 839,579.45 32° 13' 31.836 N 103° 22' 7.958 W **Cherry Canyon** 6.78 268.26 -64.08 32° 13' 31.834 N 103° 22' 8.069 W 6,400.00 6.390.81 -160.38447.112.69 839.569.93 6.500.00 6.78 268.26 6,490.11 -64.44 -172.18 447,112.33 839,558.13 32° 13' 31.832 N 103° 22' 8.206 W 268.26 447,111.97 6,600.00 6.78 6,589.41 -64.80 -183.99 839,546.32 32° 13' 31.829 N 103° 22' 8.344 W 6,700.00 6.78 268.26 6,688.71 -65.16-195.79 447,111.61 839,534.52 32° 13' 31.827 N 103° 22' 8.481 W 6.78 268.26 6.788.01 -65.52 -207.59 447.111.25 32° 13' 31.824 N 103° 22' 8.619 W 6.800.00 839.522.72 6,900.00 6.78 268.26 6,887.31 -65.88 -219.40 447,110.89 839,510.91 32° 13' 31.822 N 103° 22' 8.756 W 7,000.00 6.78 268.26 6,986.61 -66.24-231.20447.110.53 839,499.11 32° 13' 31.819 N 103° 22' 8.893 W 32° 13' 31.817 N 103° 22' 9.031 W 7,100.00 6.78 268.26 7.085.91 -66.60-243.00 447.110.17 839.487.31 7,200.00 6.78 268.26 7,185.21 -66.96 -254.81 447,109.81 839,475.50 32° 13' 31.814 N 103° 22' 9.168 W 7,300.00 6.78 268.26 7,284.51 -67.32 -266.61 447,109.45 839,463.70 32° 13' 31.812 N 103° 22' 9.306 W 268.26 7.383.82 447.109.09 103° 22' 9.443 W 7,400.00 6.78 -67.68-278.41839.451.90 32° 13' 31.809 N 7,500.00 6.78 268.26 7,483.12 -68.04 -290.22 447,108.74 839,440.09 32° 13' 31.807 N 103° 22' 9.581 W 6.78 268.26 7,582.42 -68.40 -302.02 447,108.38 839,428.29 32° 13' 31.804 N 103° 22' 9.718 W 7,600.00 7,670.92 6.78 268.26 7,652.83 -68.65 -310.39447,108.12 839,419.92 32° 13' 31.802 N 103° 22' 9.815 W **Brushy Canyon** 6.78 268.26 7 681 72 -68 76 -313 82 447 108 02 839 416 49 32° 13' 31 802 N 103° 22' 9.855 W 7 700 00 7.800.00 6.78 268.26 7,781.02 -69.12-325.63 447,107.66 839.404.68 32° 13' 31.799 N 103° 22' 9.993 W 7,900.00 6.78 268.26 7.880.32 -69.48 -337.43 447,107.30 839,392.88 32° 13' 31.797 N 103° 22' 10.130 W 268 26 7 979 62 839.381.07 103° 22' 10 268 W 8 000 00 6 78 -69 83 -34923447.106.94 32° 13' 31 794 N 8,100.00 6.78 268.26 8,078.92 -70.19 -361.04 447,106.58 839,369.27 32° 13' 31.792 N 103° 22' 10.405 W 8,200.00 6.78 268.26 8,178.22 -70.55 -372.84 447,106.22 839,357.47 32° 13' 31.789 N 103° 22' 10.543 W

447.105.86

447,105.50

447.105.14

839.345.66

839,333.86

839,322.06

32° 13' 31.787 N

32° 13' 31.784 N

32° 13' 31.782 N

-38465

-396.45

-408.25

-70.91

-71.27

-71.63

268 26

268.26

268.26

8 277 52

8,376.82

8.476.12

6 78

6.78

6.78

8.300.00

8,400.00

8.500.00

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1
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Local Co-ordinate Reference:
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Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Grid Minimum Curvature

Planned Survey Measured Vertical Map Map Depth Northing Easting Depth Inclination Azimuth +N/-S +E/-W (ft) (ft) (usft) (usft) (°) (°) (ft) (ft) Latitude Longitude 8,600.00 6 78 268 26 8,575.42 -71 99 -420.06 447,104.78 839.310.25 32° 13' 31 779 N 103° 22' 11 092 W 8,700.00 6.78 268.26 8,674.72 -72.35 -431.86 447,104.42 839,298.45 32° 13' 31.777 N 103° 22' 11.230 W 8,800.00 6.78 268.26 8,774.02 -72.71 -443.66 447,104.06 839,286.65 103° 22' 11.367 W 32° 13' 31.774 N 8.873.32 32° 13' 31.772 N 103° 22' 11.505 W 8,900.00 6.78 268.26 -73.07-455.47 447.103.70 839.274.84 268.26 8,961.91 -466.00 447,103.38 839,264.31 32° 13' 31.769 N 103° 22' 11.627 W 8.989.22 6.78 -73.39 **Bone Spring Lime** 8.972.62 -467.27 447.103.34 103° 22' 11.642 W 9,000.00 6.78 268.26 -73.43839.263.04 32° 13' 31.769 N 9,015.40 6.78 268.26 8,987.91 -73.48 -469.09 447,103.29 839,261.22 32° 13' 31.769 N 103° 22' 11.663 W Avalon 268.26 103° 22' 11.779 W 9,100.00 6.78 9,071.92 -73.79-479.07447,102.98 839,251.24 32° 13' 31.767 N 9.200.00 6.78 268.26 9.171.22 -74.15 -490.88 447,102.62 839,239.43 32° 13' 31.764 N 103° 22' 11.917 W 268.26 9,270.52 -74.51 -502.68 447,102.27 839,227.63 103° 22' 12.054 W 9.300.00 6.78 32° 13' 31.762 N 9,400.00 6.78 268.26 9,369.82 -74.87-514.48 447,101.91 839,215.83 32° 13' 31.759 N 103° 22' 12.192 W 32° 13' 31.756 N 103° 22' 12.329 W 9.500.00 6.78 268.26 9.469.12 -75.23 -526.29 447.101.55 839.204.02 9,600.00 6.78 268.26 9,568.42 -75.59 -538.09 447,101.19 839,192.22 32° 13' 31.754 N 103° 22' 12.467 W 9,700.00 6.78 268.26 9,667.72 -75.95 -549.89 447,100.83 839,180.42 32° 13' 31.751 N 103° 22' 12.604 W 268.26 9,800.00 6.78 9.767.02 -76.30-561.70 447,100.47 839,168.61 32° 13' 31.749 N 103° 22' 12.742 W 9,900.00 6.78 268.26 9,866.32 -76.66 -573.50 447,100.11 839,156.81 32° 13' 31.746 N 103° 22' 12.879 W 10,000.00 6.78 268.26 9,965.62 -77.02 -585.31 447,099.75 839,145.00 32° 13' 31.744 N 103° 22' 13.016 W 103° 22' 13.154 W 268.26 10.064.92 -597.11 447.099.39 32° 13' 31.741 N 10.100.00 6.78 -77.38839.133.20 6.78 268.26 10,078.97 -598.78 447,099.34 839,131.53 32° 13' 31.741 N 103° 22' 13.173 W 10.114.15 -77.43First Bone Spring Sand 10,164.22 -77.74 -608.91 447,099.03 103° 22' 13.291 W 10.200.00 6.78 268.26 839.121.40 32° 13' 31.739 N 10.283.34 6.78 268.26 10,246.98 -78.04 -618.75 447.098.73 839,111.56 32° 13' 31.737 N 103° 22' 13.406 W **Second Bone Spring Carbonates** 10,263.52 103° 22' 13 429 W 10.300.00 6 78 268 26 -78 10 -620.72 447.098.67 839.109.59 32° 13' 31 736 N -632.52 839 097 79 103° 22' 13.566 W 10 400 00 6 78 268 26 10 362 82 -78 46 447 098 31 32° 13' 31 734 N 10.488.19 6.78 268.26 10,450.40 -78.78 -642.93 447,097.99 839,087.38 32° 13' 31.732 N 103° 22' 13.687 W Start Drop -1.00 6.66 268.26 10,462.13 -78.82 -644.31 447,097.95 839,086.00 32° 13' 31.731 N 103° 22' 13.703 W 10,500.00 5.66 -655.04 32° 13' 31.729 N 103° 22' 13.828 W 10,600.00 268.26 10.561.55 -79.15447.097.63 839.075.27 10.692.84 4.74 268.26 10,654.01 -79.40 -663.45 447,097.37 839,066.86 32° 13' 31.727 N 103° 22' 13.926 W Second Bone Spring Sand 447.097.35 32° 13' 31.727 N 103° 22' 13.933 W 10.700.00 4.66 268.26 10.661.14 -79.42-664.04 839.066.27 10,800.00 3.66 268.26 10,760.87 -79.64 -671.30 447,097.13 839,059.01 32° 13' 31.726 N 103° 22' 14.018 W 268.26 10 900 00 2 66 10 860 72 -676.81 447 096 96 839 053 50 103° 22' 14 082 W -79 81 32° 13' 31 724 N 11,000.00 1 66 268 26 10,960.65 -79 93 -680 59 447,096.85 839,049.72 32° 13' 31.724 N 103° 22' 14.126 W 11,100.00 0.66 268.26 11,060.63 -79.99 -682.62 447,096.79 839,047.69 32° 13' 31.723 N 103° 22' 14.149 W 0.00 0.00 11.127.00 -683 00 447.096.77 839.047.31 32° 13' 31.723 N 103° 22' 14.154 W 11.166.38 -80 00 Start 278.52 hold at 11166.38 MD 11,160.62 -80.00 -683.00 447,096.77 839,047.31 103° 22' 14.154 W 0.00 32° 13' 31.723 N 11.200.00 0.00 11,217.39 0.00 0.00 11,178.02 -80.00 -683.00 447,096.77 839,047.31 32° 13' 31.723 N 103° 22' 14.154 W **Third Bone Spring Carbonates** 0.00 11,300.00 0.00 11,260.62 -80.00 -683.00 447,096.77 839,047.31 32° 13' 31.723 N 103° 22' 14.154 W 0.00 11.360.62 447.096.77 103° 22' 14 154 W 11.400.00 0.00 -80 00 -683 00 839.047.31 32° 13' 31 723 N 11.444.90 0.00 0.00 11,405.52 -80.00 -683.00 447,096.77 839,047.31 32° 13' 31.723 N 103° 22' 14.154 W Start Build 10.00 11,500.00 5.51 359.23 11,460.54 -77.35 -683.04 447,099.42 839,047.27 32° 13' 31.749 N 103° 22' 14.154 W 11,600.00 359.23 11,558.74 -59.13 -683.28 447,117.64 839,047.03 32° 13' 31.930 N 103° 22' 14.155 W 15.51 11.663.48 21.86 359.23 11.618.84 -38.81 -683.55447.137.96 839.046.76 32° 13' 32.131 N 103° 22' 14.156 W Third Bone Spring Sand 359.23 11.652.28 -24.14 -683.75 32° 13' 32.276 N 103° 22' 14.157 W 447.152.63 839.046.56 11.700.00 25.51 11,800.00 35.51 359.23 11,738.32 26.56 -684.43 447,203.33 839,045.88 32° 13' 32.778 N 103° 22' 14.159 W

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1
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Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Measured	Planned Survey	,								
12,000.00 56.51 389.23 11,877.77 168.50 6-86.33 447,345.27 839,043.98 32 13,34.182 N 103*22*14.176*W 12,200.00 66.51 389.23 11,960.25 346.56 6-88.75 447,826.34 839,041.56 32*13*36.942 N 103*22*14.176*W 12,229.83 78.49 389.23 11,960.25 346.56 6-88.14 447,825.34 839,041.56 32*13*36.942 N 103*22*14.176*W 12,327.35 88.25 350.23 11,978.72 448.06 6-89.14 447,825.40 839,041.57 33.692*N 103*22*14.176*W 12,327.35 88.25 350.23 11,978.72 448.06 6-89.07 447,825.41 839,038.89 32*13*36.292*N 103*22*14.176*W 12,327.35 88.25 350.23 11,978.72 448.06 6-89.07 447,825.41 839,039.88 32*13*37*554 N 103*22*14.176*W 12,327.35 88.25 350.23 11,978.21 475.37 -890.43 447,825.21 839,039.88 32*13*37*554 N 103*22*14.182*W 149.00 91.63 358.20 11,977.14 647.99 691.40 447,724.76 839,039.81 32*13*37*554 N 103*22*14.189*W 12,300.00 91.63 358.20 11,977.15 647.99 691.40 447,724.76 839,038.91 32*13*37*38 N 103*22*14.189*W 12,200.00 91.63 358.20 11,977.15 747.89 685.40 885.40 889.08.25 32*13*38.927*N 103*22*14.199*W 12,200.00 91.63 358.20 11,978.45 747.89 685.40 885.40 889.08.25 32*13*38.927*N 103*22*14.199*W 12,200.00 91.63 358.20 11,978.45 747.89 685.40 885.40 889.08.25 32*13*38.927*N 103*22*14.199*W 12,200.00 91.63 358.20 11,978.25 885.20 885.2	Depth			Depth			Northing	Easting	Latitude	Longitude
12,100.00 65.51 580.23 11,926.83 255.42 -867.49 447.432.19 839.042.8 32*13*35.942 N 103*22*14.176 W 12,229.83 76.49 580.23 11,966.96 378.62 -889.14 447.565.40 839.041.17 32*13*35.974 N 103*22*14.176 W 12,229.83 76.49 580.23 11,976.72 448.06 -890.07 447.624.83 839.041.17 32*13*35.974 N 103*22*14.176 W 12,227.55 88.25 350.23 11,976.72 448.06 -890.07 447.624.83 839.040.24 32*13*35.949 N 103*22*14.181 W 1292*TVD.**0*V*9\$1.83*1*U*pDip 12,261.20 91.63 350.23 11,976.25 500.20 -890.88 447.652.14 83.90.39.88 25*2*13*75.54 N 103*22*14.182 W 1292*TVD.**0*V*9\$1.83*1*U*pDip 12,261.20 91.63 350.23 11,976.25 500.20 -890.88 447.652.14 83.90.39.48 22*13*37.554 N 103*22*14.182 W 12,260.00 91.63 350.23 11,977.46 547.99 -891.40 447.724.76 839.038.91 32*13*37.554 N 103*22*14.186 W 12,260.00 91.63 350.23 11,977.40 547.99 -891.40 447.724.76 839.038.91 32*13*37.598 N 103*22*14.186 W 12,260.00 91.63 350.23 11,974.30 647.94 -892.74 447.924.68 839.036.23 32*33.939.10 13*22*14.186 W 12,260.00 91.63 350.23 11,974.40 -892.74 447.924.68 839.036.23 32*33.939.10 13*22*14.186 W 12,260.00 91.63 350.23 11,968.61 647.64 -895.42 448.024.61 839.034.89 32*13*37.939.10 13*22*14.186 W 12,260.00 91.63 350.23 11,968.61 647.64 -895.42 448.024.61 839.034.89 32*13*49.905 N 103*22*14.186 W 12,260.00 91.63 350.23 11,968.67 647.64 -896.76 848.124.56 839.038.29 32*14.488.91 N 103*22*14.186 W 12,260.00 91.63 350.23 11,967.23 14.90.00 01.63 350.23 11,969.00 01.147.64 -896.00 448.224.61 839.038.89 32*13*4.905 N 103*22*14.220 W 12,260.00 91.63 350.23 11,969.00 01.147.69 -896.93 448.224.61 839.038.89 32*13*4.888 N 103*22*14.220 W 13,260.00 91.63 350.23 11,969.00 01.147.69 -896.93 448.224.61 839.038.89 32*13*4.888 N 103*22*14.220 W 13,260.00 91.63 350.23 11,969.00 01.147.69 -896.75 448.824.41 839.026.65 32*13*4.888 N 103*22*14.220 W 13,260.00 91.63 350.23 11,969.00 01.147.69 -896.75 448.824.41 839.026.65 32*13*4.888 N 103*22*14.220 W 13,260.00 91.63 350.23 11,969.00 01.147.69 00.00 14.64 82.24 W 13,260.00 91.63 350.23 11,969.00 01.147.69 00.00 14.64 82.24 W 13,260.00	11,900.00	45.51	359.23	11,814.26	91.43	-685.29	447,268.20	839,045.02	32° 13' 33.420 N	103° 22' 14.163 W
12,200.00 91.63 359,23 11,900.25 349.56 .689.75 447,526.34 839.041.56 32*13*38,74*N 103*22*14.17*N Wolfcamp 12,200.00 85.51 359.23 11,976.27 448.06 .690.07 447,624.83 839.040.24 32*13*38,74*N 103*22*14.181*N 12,207.35 86.25 359.23 11,976.21 448.06 .690.07 447,624.83 839.040.24 32*13*36.949 N 103*22*14.181*N 12,207.35 86.25 359.23 11,976.21 447.357 .690.43 447,652.14 839.038.88 32*13*37.219 N 103*22*14.181*N 12,207.27*N 12,	12,000.00	55.51	359.23	11,877.77	168.50	-686.33	447,345.27	839,043.98	32° 13′ 34.182 N	103° 22' 14.167 W
12,228,83	12,100.00	65.51	359.23	11,926.93	255.42	-687.49	447,432.19	839,042.82	32° 13′ 35.042 N	103° 22' 14.171 W
12,300.00	12,229.83	78.49	359.23	11,966.96	378.62	-689.14	447,555.40	839,041.17	32° 13′ 36.262 N	103° 22' 14.177 W
14.92 TVD - 0'VS 91.63 'Upble 12.361.20		•								
1992 TVD - of VS 91.63* UpDip 12,361.20 91.63 359.23 11,978.25 509.20 -690.88 447,685.98 839,039.43 32° 13° 37.554 N 103° 22° 14.184 W 12,900.00 91.63 359.23 11,977.41 547.99 -691.40 447,724.76 839,037.67 32° 13° 39.927 N 103° 22° 14.186 W 12,900.00 91.63 359.23 11,977.45 747.89 -694.08 447,924.66 839,036.23 32° 13° 39.916 N 103° 22° 14.196 W 12,900.00 91.63 359.23 11,977.45 747.89 -694.08 448,724.66 839,036.23 32° 13° 39.916 N 103° 22° 14.196 W 12,900.00 91.63 359.23 11,965.77 947.79 -696.75 448,124.56 839,035.66 32° 13° 4.996 N 103° 22° 14.20° W 12,900.00 91.63 359.23 11,960.98 1,147.69 699.43 448,224.51 839,032.63 32° 13° 4.894 N 103° 22° 14.21° W 13,000.00 91.63 359.23 11,960.08 1,147.69 699.43 448,224.51 839,032.56 32° 13° 4.898 N 103° 22° 14.21° W 13,000.00 91.63 359.23 11,956.27 347.79 -699.43 448,224.41 839,029.54 32° 13° 4.898 N 103° 22° 14.21° W 13,000.00 91.63 359.23 11,956.39 1,347.59 -702.10 448,224.41 839,029.54 32° 13° 4.898 N 103° 22° 14.22° W 13,000.00 91.63 359.23 11,956.39 1,347.59 -702.10 448,224.31 839.028.61 32° 13° 4.898 N 103° 22° 14.22° W 13,000.00 91.63 359.23 11,948.70 1,547.49 -704.76 448,224.31 839.028.62 32° 13° 4.898 N 103° 22° 14.22° W 13,000.00 91.63 359.23 11,948.70 1,547.49 -704.76 448,224.31 839,028.62 32° 13° 4.898 N 103° 22° 14.22° W 13,000.00 91.63 359.23 11,948.70 1,547.49 -704.76 448,224.31 839,028.62 32° 13° 4.898 N 103° 22° 14.22° W 13,000.00 91.63 359.23 11,948.70 1,547.49 -704.76 448,224.10 839,021.93 32° 13° 14° 8.98 N 103° 22° 14.22° W 13,000.00 91.63 359.23 11,948.70 1,547.49 -704.76 448,224.10 839,021.93 32° 13° 48.818 N 103° 22° 14.22° W 13,000.00 91.63 359.23 11,948.70 1,547.49 -704.76 448,224.10 839,021.93 32° 13° 48.818 N 103° 22° 14.22° W								,		
Start 9580 29 hold at 12361 20 MD				11,978.21	475.37	-690.43	447,652.14	839,039.88	32° 13' 37.219 N	103° 22' 14.182 W
Start 9580, 28 hold at 1238-1.20 MD										
12,500.00 916.3 359.23 11,971.4 547.99 -691.40 447,724.76 839,038.91 32°13′37,938.N 103°22′14,191.W 12,600.00 916.3 359.23 11,961.45 747.89 -694.08 447,924.66 839,036.23 32°13′49.08.N 103°22′14,191.W 12,600.00 916.3 359.23 11,961.61 647.64 -695.42 448,024.61 839,036.23 32°13′49.08.N 103°22′14,191.W 12,600.00 916.3 359.23 11,965.77 947.79 -696.75 448,024.61 839,038.63 32°13′49.08.N 103°22′14,207.W 12,900.00 916.3 359.23 11,965.77 44.77 4-698.09 448,224.51 839,032.52 32′13′4.888.N 103°22′14.270′W 12,900.00 916.3 359.23 11,960.08 1,147.74 -698.09 448,224.51 839,032.52 32′13′4.888.N 103°22′14.271′W 13,100.00 916.3 359.23 11,960.08 1,147.69 -699.43 448,224.51 839,032.82 32′13′4.888.N 103°22′14.271′W 13,100.00 916.3 359.23 11,960.08 1,147.69 -699.43 448,224.61 839,030.88 32′13′4.4861 N 103°22′14.2271′W 13,200.00 916.3 359.23 11,960.08 1,147.69 -699.43 448,224.61 839,028.24 32°13′4.4861 N 103°22′14.2271′W 13,200.00 916.3 359.23 11,960.08 1,447.54 -702.10 448,524.36 839,028.24 32°13′4.4861 N 103°22′14.2271′W 13,300.00 916.3 359.23 11,964.54 1,447.54 -703.44 448,624.31 839,028.21 32°13′4.838.N 103°22′14.2281′W 13,300.00 916.3 359.23 11,948.70 11,747.40 -707.45 448,624.21 839,028.55 33°13′48.881 N 103°22′14.238 W 13,500.00 916.3 359.23 11,945.50 11,747.40 -707.45 448,624.21 839,024.19 32°13′48.881 N 103°22′14.238 W 13,500.00 916.3 359.23 11,945.30 11,747.40 -707.45 448,924.17 839,021.52 32°13′49.07 N 103°22′14.258 W 13,500.00 916.3 359.23 11,940.10 11,747.40 -707.45 448,924.17 839,021.52 32°13′48.07 N 103°22′14.258 W 13,500.00 916.3 359.23 11,940.16 11,947.35 706.79 490.24 12 839,021.52 32°13′49.07 N 103°22′14.258 W 13,500.00 916.3 359.23 11,940.16 11,947.35 706.79 490.24 12 839,021.52 32°13′45.75 N 103°22′14.258 W 14,000.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.3 359.23 11,940.46 14,040.00 916.				11,978.25	509.20	-690.88	447,685.98	839,039.43	32° 13' 37.554 N	103° 22' 14.184 W
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15,400.00 91.63 359.23 11,891.81 3,546.51 -731.53 450,723.27 838,998.78 32° 14′ 7.610 N 103° 22′ 14.340 W 15,500.00 91.63 359.23 11,888.96 3,646.46 -732.87 450,823.22 838,997.44 32° 14′ 8.600 N 103° 22′ 14.346 W 15,600.00 91.63 359.23 11,886.12 3,746.41 -734.20 450,923.17 838,996.11 32° 14′ 9.589 N 103° 22′ 14.351 W 15,700.00 91.63 359.23 11,883.27 3,846.36 -735.54 451,023.12 838,994.77 32° 14′ 10.578 N 103° 22′ 14.366 W 15,800.00 91.63 359.23 11,880.43 3,946.31 -736.88 451,123.07 838,993.43 32° 14′ 11.567 N 103° 22′ 14.361 W 15,900.00 91.63 359.23 11,877.59 4,046.26 -738.22 451,223.02 838,992.09 32° 14′ 12.556 N 103° 22′ 14.371 W 16,000.00 91.63 359.23 11,874.74 4,146.21 -739.55 451,322.97 838,990.76 32° 14′ 13.545 N 103° 22′ 14.376 W 16,100.00 91.63 359.23 11,871.90	15,200.00	91.63	359.23	11,897.50	3,346.61	-728.85	450,523.37	839,001.46	32° 14' 5.632 N	103° 22' 14.330 W
15,500.00 91.63 359.23 11,888.96 3,646.46 -732.87 450,823.22 838,997.44 32° 14' 8.600 N 103° 22' 14.346 W 15,600.00 91.63 359.23 11,886.12 3,746.41 -734.20 450,923.17 838,996.11 32° 14' 9.589 N 103° 22' 14.351 W 15,700.00 91.63 359.23 11,883.27 3,846.36 -735.54 451,023.12 838,994.77 32° 14' 10.578 N 103° 22' 14.356 W 15,800.00 91.63 359.23 11,880.43 3,946.31 -736.88 451,123.07 838,993.43 32° 14' 11.567 N 103° 22' 14.366 W 15,900.00 91.63 359.23 11,877.59 4,046.26 -738.22 451,223.02 838,992.09 32° 14' 12.556 N 103° 22' 14.366 W 16,000.00 91.63 359.23 11,874.74 4,146.21 -739.55 451,322.97 838,990.76 32° 14' 13.545 N 103° 22' 14.376 W 16,100.00 91.63 359.23 11,871.90 4,246.16 -740.89 451,422.92 838,989.42 32° 14' 14.534 N 103° 22' 14.376 W 16,200.00 91.63 359.23 11,869.05		91.63	359.23	11,894.65	3,446.56	-730.19	450,623.32	839,000.12	32° 14' 6.621 N	103° 22' 14.335 W
15,600.00 91.63 359.23 11,886.12 3,746.41 -734.20 450,923.17 838,996.11 32° 14' 9.589 N 103° 22' 14.351 W 15,700.00 91.63 359.23 11,883.27 3,846.36 -735.54 451,023.12 838,994.77 32° 14' 10.578 N 103° 22' 14.356 W 15,800.00 91.63 359.23 11,880.43 3,946.31 -736.88 451,123.07 838,993.43 32° 14' 11.567 N 103° 22' 14.361 W 15,900.00 91.63 359.23 11,877.59 4,046.26 -738.22 451,223.02 838,992.09 32° 14' 12.556 N 103° 22' 14.366 W 16,000.00 91.63 359.23 11,874.74 4,146.21 -739.55 451,322.97 838,990.76 32° 14' 13.545 N 103° 22' 14.371 W 16,100.00 91.63 359.23 11,871.90 4,246.16 -740.89 451,422.92 838,989.42 32° 14' 14.534 N 103° 22' 14.376 W 16,200.00 91.63 359.23 11,869.05 4,346.11 -742.23 451,522.88 838,988.08 32° 14' 15.523 N 103° 22' 14.382 W	15,400.00	91.63	359.23	11,891.81	3,546.51	-731.53	450,723.27	838,998.78	32° 14' 7.610 N	103° 22' 14.340 W
15,700.00 91.63 359.23 11,883.27 3,846.36 -735.54 451,023.12 838,994.77 32° 14' 10.578 N 103° 22' 14.356 W 15,800.00 91.63 359.23 11,880.43 3,946.31 -736.88 451,123.07 838,993.43 32° 14' 11.567 N 103° 22' 14.361 W 15,900.00 91.63 359.23 11,877.59 4,046.26 -738.22 451,223.02 838,992.09 32° 14' 12.556 N 103° 22' 14.366 W 16,000.00 91.63 359.23 11,874.74 4,146.21 -739.55 451,322.97 838,990.76 32° 14' 13.545 N 103° 22' 14.371 W 16,100.00 91.63 359.23 11,871.90 4,246.16 -740.89 451,422.92 838,989.42 32° 14' 14.534 N 103° 22' 14.376 W 16,200.00 91.63 359.23 11,869.05 4,346.11 -742.23 451,522.88 838,988.08 32° 14' 15.523 N 103° 22' 14.382 W	15,500.00	91.63		11,888.96	3,646.46	-732.87		838,997.44	32° 14' 8.600 N	103° 22' 14.346 W
15,800.00 91.63 359.23 11,880.43 3,946.31 -736.88 451,123.07 838,993.43 32° 14' 11.567 N 103° 22' 14.361 W 15,900.00 91.63 359.23 11,877.59 4,046.26 -738.22 451,223.02 838,992.09 32° 14' 12.556 N 103° 22' 14.366 W 16,000.00 91.63 359.23 11,874.74 4,146.21 -739.55 451,322.97 838,990.76 32° 14' 13.545 N 103° 22' 14.371 W 16,100.00 91.63 359.23 11,871.90 4,246.16 -740.89 451,422.92 838,989.42 32° 14' 14.534 N 103° 22' 14.376 W 16,200.00 91.63 359.23 11,869.05 4,346.11 -742.23 451,522.88 838,988.08 32° 14' 15.523 N 103° 22' 14.382 W										
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16,200.00 91.63 359.23 11,869.05 4,346.11 -742.23 451,522.88 838,988.08 32° 14' 15.523 N 103° 22' 14.382 W										
16,300.00 91.63 359.23 11,660.21 4,446.06 -743.57 451,622.63 636,966.74 32 14 16.512 N 103 22 14.367 W 16,400.00 91.63 359.23 11,863.36 4,546.01 -744.90 451,722.78 838,985.41 32° 14' 17.501 N 103° 22' 14.392 W	16,300.00	91.63	359.23 359.23	11,866.21 11,863,36	4,446.06 4 546.01	-743.57 -744 90	451,622.83 451,722,78	838,986.74 838 985 41	32° 14' 16.512 N 32° 14' 17 501 N	103° 22' 14.387 W
16,500.00 91.63 359.23 11,860.52 4,645.96 -746.24 451,822.73 838,984.07 32° 14′ 18.490 N 103° 22′ 14.397 W										
16,600.00 91.63 359.23 11,857.67 4,745.91 -747.58 451,922.68 838,982.73 32° 14' 19.480 N 103° 22' 14.402 W										

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
						` '	, ,		-
16,700.00	91.63	359.23	11,854.83	4,845.86	-748.92	452,022.63	838,981.39	32° 14' 20.469 N	103° 22' 14.407 W
16,800.00	91.63	359.23	11,851.98	4,945.81	-750.25	452,122.58	838,980.06	32° 14' 21.458 N	103° 22' 14.412 W
16,900.00	91.63	359.23	11,849.14	5,045.77	-751.59	452,222.53	838,978.72	32° 14' 22.447 N	103° 22' 14.418 W
17,000.00	91.63	359.23	11,846.30	5,145.72	-752.93	452,322.48	838,977.38	32° 14' 23.436 N	103° 22' 14.423 W
17,100.00	91.63	359.23	11,843.45	5,245.67	-754.27	452,422.43	838,976.04	32° 14' 24.425 N	103° 22' 14.428 W
17,200.00	91.63	359.23	11,840.61	5,345.62	-755.60	452,522.38	838,974.71	32° 14' 25.414 N	103° 22' 14.433 W
17,300.00	91.63	359.23	11,837.76	5,445.57	-756.94	452,622.33	838,973.37	32° 14' 26.403 N	103° 22' 14.438 W
17,400.00	91.63	359.23	11,834.92	5,545.52	-758.28	452,722.28	838,972.03	32° 14' 27.392 N	103° 22' 14.443 W
17,500.00	91.63	359.23	11,832.07	5,645.47	-759.62	452,822.23	838,970.69	32° 14' 28.381 N	103° 22' 14.448 W
17,600.00	91.63	359.23	11,829.23	5,745.42	-760.95	452,922.18	838,969.36	32° 14' 29.370 N	103° 22' 14.454 W
17,700.00	91.63	359.23	11,826.38	5,845.37	-762.29	453,022.13	838,968.02	32° 14' 30.360 N	103° 22' 14.459 W
17,800.00	91.63	359.23	11,823.54	5,945.32	-763.63	453,122.08	838,966.68	32° 14' 31.349 N	103° 22' 14.464 W
17,900.00	91.63	359.23	11,820.70	6,045.27	-764.97	453,222.03	838,965.34	32° 14' 32.338 N	103° 22' 14.469 W
18,000.00	91.63	359.23	11,817.85	6,145.22	-766.30	453,321.98	838,964.01	32° 14' 33.327 N	103° 22' 14.474 W
18,100.00	91.63	359.23	11,815.01	6,245.17	-767.64	453,421.93	838,962.67	32° 14' 34.316 N	103° 22' 14.479 W
18,200.00	91.63	359.23	11,812.16	6,345.12	-768.98	453,521.88	838,961.33	32° 14' 35.305 N	103° 22' 14.484 W
18,300.00	91.63	359.23	11,809.32	6,445.07	-770.32	453,621.83	838,959.99	32° 14' 36.294 N	103° 22' 14.490 W
18,400.00	91.63	359.23	11,806.47	6,545.02	-771.65	453,721.78	838,958.66	32° 14' 37.283 N	103° 22' 14.495 W
18,500.00	91.63	359.23	11,803.63	6,644.97	-772.99	453,821.73	838,957.32	32° 14' 38.272 N	103° 22' 14.500 W
18,600.00	91.63	359.23	11,800.78	6,744.93	-774.33	453,921.68	838,955.98	32° 14' 39.261 N	103° 22' 14.505 W
18,700.00	91.63	359.23	11,797.94	6,844.88	-775.67	454,021.63	838,954.64	32° 14' 40.250 N	103° 22' 14.510 W
18,800.00	91.63	359.23	11,795.09	6,944.83	-777.00	454,121.59	838,953.31	32° 14' 41.240 N	103° 22' 14.515 W
18,900.00	91.63	359.23	11,792.25	7,044.78	-778.34	454,221.54	838,951.97	32° 14' 42.229 N	103° 22' 14.520 W
19,000.00	91.63	359.23	11,789.41	7,144.73	-779.68	454,321.49	838,950.63	32° 14' 43.218 N	103° 22' 14.526 W
19,100.00	91.63	359.23	11,786.56	7,144.73	-779.00 -781.02	454,421.44	838,949.29	32° 14' 44.207 N	103° 22' 14.531 W
19,700.00	91.63	359.23	11,783.72	7,344.63	-782.35	454,521.39	838,947.96	32° 14' 45.196 N	103° 22' 14.536 W
19,200.00	91.63	359.23	11,780.87	7,444.58	-783.69	454,621.34	838,946.62	32° 14' 46.185 N	103° 22' 14.541 W
19,400.00	91.63	359.23	11,778.03	7,544.53	-785.03	454,721.29	838,945.28	32° 14' 47.174 N	103° 22' 14.546 W
19,500.00	91.63	359.23	11,775.18	7,644.48	-786.37	454,821.24	838,943.94	32° 14' 48.163 N	103° 22' 14.551 W
19,600.00	91.63	359.23	11,772.34	7,744.43	-787.70	454,921.19	838,942.61	32° 14' 49.152 N	103° 22' 14.556 W
19,700.00	91.63	359.23	11,769.49	7,744.43	-789.04	455,021.14	838,941.27	32° 14' 50.141 N	103° 22' 14.562 W
	91.63	359.23		7,044.33			838,939.93		103° 22' 14.567 W
19,800.00		359.23	11,766.65	,	-790.38 -701.73	455,121.09	,	32° 14′ 51.130 N	
19,900.00	91.63	359.23	11,763.81	8,044.28	-791.72 -793.05	455,221.04	838,938.59	32° 14' 52.120 N 32° 14' 53.109 N	103° 22' 14.572 W
20,000.00 20,100.00	91.63	359.23	11,760.96	8,144.23		455,320.99	838,937.26		103° 22' 14.577 W 103° 22' 14.582 W
1	91.63		11,758.12	8,244.18	-794.39 -705.73	455,420.94	838,935.92	32° 14' 54.098 N	
20,200.00	91.63	359.23	11,755.27	8,344.13	-795.73	455,520.89	838,934.58	32° 14' 55.087 N	103° 22' 14.587 W
20,300.00	91.63	359.23	11,752.43	8,444.09	-797.07	455,620.84	838,933.24	32° 14' 56.076 N	103° 22' 14.592 W
20,400.00	91.63	359.23	11,749.58	8,544.04	-798.40	455,720.79	838,931.91	32° 14' 57.065 N	103° 22' 14.597 W
20,500.00	91.63	359.23	11,746.74	8,643.99	-799.74	455,820.74	838,930.57	32° 14' 58.054 N	103° 22' 14.603 W
20,600.00	91.63	359.23	11,743.89	8,743.94	-801.08	455,920.69	838,929.23	32° 14' 59.043 N	103° 22' 14.608 W
20,700.00	91.63	359.23	11,741.05	8,843.89	-802.42	456,020.64	838,927.89	32° 15' 0.032 N	103° 22' 14.613 W
20,800.00	91.63	359.23	11,738.20	8,943.84	-803.75	456,120.59	838,926.56	32° 15' 1.021 N	103° 22' 14.618 W
20,900.00	91.63	359.23	11,735.36	9,043.79	-805.09	456,220.54	838,925.22	32° 15′ 2.010 N	103° 22' 14.623 W
21,000.00	91.63	359.23	11,732.52	9,143.74	-806.43	456,320.49	838,923.88	32° 15′ 3.000 N	103° 22' 14.628 W
21,100.00	91.63	359.23	11,729.67	9,243.69	-807.77	456,420.44	838,922.54	32° 15′ 3.989 N	103° 22' 14.633 W
21,200.00	91.63	359.23	11,726.83	9,343.64	-809.10	456,520.39	838,921.21	32° 15' 4.978 N	103° 22' 14.639 W
21,300.00	91.63	359.23	11,723.98	9,443.59	-810.44	456,620.35	838,919.87	32° 15' 5.967 N	103° 22' 14.644 W
21,400.00	91.63	359.23	11,721.14	9,543.54	-811.78	456,720.30	838,918.53	32° 15′ 6.956 N	103° 22' 14.649 W
21,500.00	91.63	359.23	11,718.29	9,643.49	-813.12	456,820.25	838,917.19	32° 15′ 7.945 N	103° 22' 14.654 W
21,600.00	91.63	359.23	11,715.45	9,743.44	-814.45	456,920.20	838,915.86	32° 15′ 8.934 N	103° 22' 14.659 W
21,700.00	91.63	359.23	11,712.60	9,843.39	-815.79	457,020.15	838,914.52	32° 15′ 9.923 N	103° 22' 14.664 W
21,800.00	91.63	359.23	11,709.76	9,943.34	-817.13	457,120.10	838,913.18	32° 15′ 10.912 N	103° 22' 14.669 W
21,900.00	91.63	359.23	11,706.92	10,043.29	-818.47	457,220.05	838,911.84	32° 15' 11.901 N	103° 22' 14.675 W

Database: EDM 5000.14 Single User Db Company: Franklin Mountain Energy Project: Golden - Breckenridge Site Site: Lea County, NM (NAD 83) Well: Golden Fed Com 704H

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Golden Fed Com 704H GL 3375' + RKB 21' @ 3396.00ft GL 3375' + RKB 21' @ 3396.00ft Grid

Minimum Curvature

Wellbore: Wellbore #1
Design: Plan #1

Planned Survey											
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
	21,941.48 TD at 21 9	91.63 941.48 - Gold e	359.23 en 704H PBH I	11,705.74 L	10,084.76	-819.02	457,261.51	838,911.29	32° 15' 12.312 N	103° 22' 14.677 W	

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Golden 704H PBHL - plan hits target cen - Point	0.00 iter	0.00	11,705.74	10,084.76	-819.02	457,261.51	838,911.29	32° 15′ 12.312 N	103° 22' 14.677 W

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	21.00	21.00	Cenozoic Alluvium (surface)		-1.63	359.23	
	981.00 981.00 Rustler		Rustler		-1.63	359.23	
	1,078.00	1,078.00	Salado		-1.63	359.23	
	3,003.85	3,003.67	Base Salt		-1.63	359.23	
	5,302.27	5,300.70	Lamar		-1.63	359.23	
	5,406.94	5,404.71	Bell Canyon		-1.63	359.23	
	6,319.38	6,310.76	Cherry Canyon		-1.63	359.23	
	7,670.92	7,652.83	Brushy Canyon		-1.63	359.23	
	8,989.22	8,961.91	Bone Spring Lime		-1.63	359.23	
	9,015.40	8,987.91	Avalon		-1.63	359.23	
	10,114.15	10,078.97	First Bone Spring Sand		-1.63	359.23	
	10,283.34	10,246.98	Second Bone Spring Carbonates		-1.63	359.23	
	10,692.84	10,654.01	Second Bone Spring Sand		-1.63	359.23	
	11,217.39	11,178.02	Third Bone Spring Carbonates		-1.63	359.23	
	11,663.48	11,618.84	Third Bone Spring Sand		-1.63	359.23	
	12,229.83	11,966.96	Wolfcamp		-1.63	359.23	
	12,327.35	11,978.21	11992' TVD - 0' VS 91.63° UpDip		-1.63	359.23	

lan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(ft)	(ft)	(ft)	(ft)	Comment	
1,100.00	1,100.00	0.00	0.00	Start Build 0.09	
2,200.00	2,199.94	-9.60	0.00	Start 2500.44 hold at 2200.00 MD	
4,700.44	4,700.00	-53.24	0.00	Start DLS 1.00 TFO 96.64	
5,382.91	5,380.83	-60.43	-40.33	Start 5105.28 hold at 5382.91 MD	
10,488.19	10,450.40	-78.78	-642.93	Start Drop -1.00	
11,166.38	11,127.00	-80.00	-683.00	Start 278.52 hold at 11166.38 MD	
11,444.90	11,405.52	-80.00	-683.00	Start Build 10.00	
12,361.20	11,978.25	509.20	-690.88	Start 9580.29 hold at 12361.20 MD	
21,941.48	11,705.74	10,084.76	-819.02	TD at 21941.48	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Franklin Mountain Energy LLC NMNM0001228A LEASE NO.: LOCATION: Section 9, T.24 S., R.35 E., NMPM COUNTY: Lea County, New Mexico WELL NAME & NO.: Golden Fed Com 603H **SURFACE HOLE FOOTAGE:** 325'/S & 1408'/E **BOTTOM HOLE FOOTAGE** 150'/N & 1677'/E Golden Fed Com 704H WELL NAME & NO.: SURFACE HOLE FOOTAGE: 325'/S & 1373'/E **BOTTOM HOLE FOOTAGE** 150'/N & 2078'/E COA H2S TYes 🖸 No None Secretary Potash **R**-111-P Cave/Karst Potential • Low Medium High Cave/Karst Potential Critical None None C Other Variance Flex Hose Conventional Wellhead Multibowl Both □ WIPP Other ✓ 4 String Area ☐ Capitan Reef ▼ Fluid Filled Other Cement Squeeze ☐ Pilot Hole **✓** COM Special Requirements Water Disposal Unit

Operator is NOT approved for the use of Flex hose.

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately 1150 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing shall be set at approximately 5400 feet is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

- 3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

Page 3 of 8

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

- hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Page 8 of 8