Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMLC070286 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone ANVIL FED COM 601H 9. API Well No. 30 015 48629 2. Name of Operator ASCENT ENERGY LLC 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 1621 18th Street, Suite 200, Denver, CO 80202 (720) 710-8999 WC-015 G-04 S203032P/BONE SPRING 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 4/T21S/R29E/1PM At surface LOT 1 / 179 FNL / 1009 FEL / LAT 32.52207 / LONG -103.984246 At proposed prod. zone NWNW / 50 FNL / 990 FWL / LAT 32.551487 / LONG -103.982563 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13 State **EDDY** NM 15 miles 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 179 feet location to nearest property or lease line, ft. 320.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 9715 feet / 20473 feet FED: NMB001698 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3387 feet 12/01/2020 90 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date BRIAN WOOD / Ph: (720) 710-8999 (Electronic Submission) 08/10/2020 Title President Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) Cody Layton / Ph: (575) 234-5959 06/18/2021 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



District I

District III

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

# Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Numbe	Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name				
30-015-		98008	WC-015 G-04 S203032P; BONE SPRING		
<sup>4</sup> Property Code		<sup>5</sup> Pr	<sup>6</sup> Well Number		
		ANV	601H		
<sup>7</sup> OGRID No.		8 O <sub>l</sub>	<sup>9</sup> Elevation		
325830		ASCENT ENERGY, LLC. 3,384'			

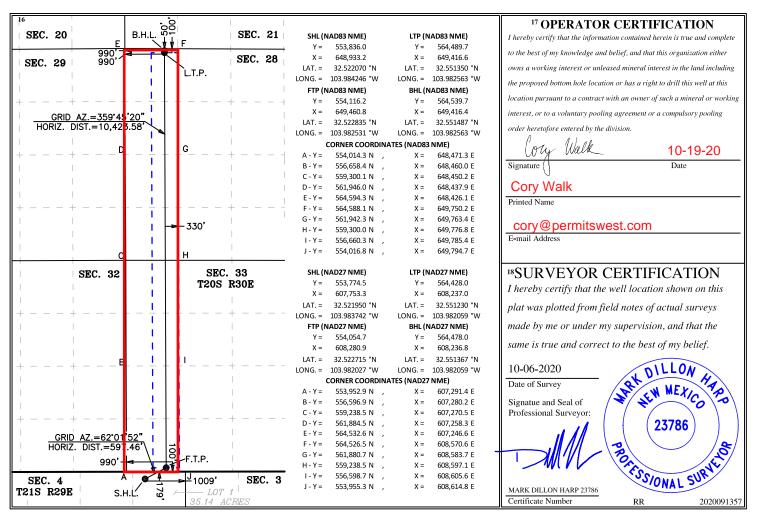
#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	İ
1	4	21 S	29 E		179	NORTH	1,009	EAST	EDDY	

#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	20 S	30 E		50	NORTH	990	WEST	EDDY
12 Dedicated Acres	13 Joint of	r Infill 14 (	Consolidation	Code 15 Or	der No.				
320									

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



#### State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

### NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

# Section 1 – Plan Description Effective May 25, 2021

		1	Effective May 25	, 2021					
I. Operator:Asc	ent Energy, L	LC	OGR	XID: _	325830		I	Date:	_06/_01/2021
II. Type: ⊠ Original	☐ Amendme	nt due to □ 19.15.2	27.9.D(6)(a) NMA	.C □ 1	9.15.27.9.D(6)	(b) N	MAC □ O	ther.	
If Other, please describ	e:								
<b>III. Well(s):</b> Provide the recompleted from a					ell or set of we	lls pr	oposed to b	oe dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		Anticipated Gas MCF/D		Anticipated Produced Water BBL/D	
Anvil Fed Com 401H		1-4-21S-29E	144' FNL & 1032' FEL ~1000		~1000	~3000		~2000	
Anvil Fed Com 501H		1-4-21S-29E	173' FNL & 1038' FEL ~1000		~3000 ~2		~200	00	
Anvil Fed Com 601H		1-4-21S-29E	179' FNL & 1009' FEL ~1000		~1000	~3000		~200	00
Anvil Fed Com 701H		1-4-21S-29E	168' FNL & 1068' FEL		~1000	~3000		~200	00
Anvil Fed Com 702H		1-4-21S-29E	150' FNL & 1003' FEL ~1000 ~3		~300	000 ~2000		00	
IV. Central Delivery F V. Anticipated Schedu proposed to be recomple	nle: Provide the	ne following informingle well pad or co	nation for each neonnected to a cent	w or re	completed wel		et of wells p	propo	sed to be drilled or
Well Name	API	Spud Date	TD Reached		Completion		Initial Fl	ow	First Production
			Date	Date Commencement Date		Back Da	ite	Date	
Anvil Fed Com 401H		1/1/2022	2/28/2022	<u>2/28/2022</u> <u>3/15/2022</u> <u>5</u>		5/1/2022		5/15/2022	
Anvil Fed Com 501H		1/1/2022			5/1/2022		5/15/2022		
Anvil Fed Com 601H		11/1/2021			5/1/2022		5/15/2022		
Anvil Fed Com 701H		11/1/2021				5/15/2022			
Anvil Fed Com 702H									
VI. Separation Equip	ment: ⊠ Atta	ch a complete desc	ription of how Op	erator	will size separ	ation	equipment	to op	timize gas capture.

- VII. Operational Practices: ⊠ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- **VIII. Best Management Practices:** 

  Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 - Enhanced Plan	n
<b>EFFECTIVE APRIL 1, 2022</b>	

			E APRIL 1, 2022	
Beginning April 1, reporting area must			with its statewide natural ga	as capture requirement for the applicable
☐ Operator certifie capture requirement			tion because Operator is in	compliance with its statewide natural gas
IX. Anticipated Na	tural Gas Producti	on:		
W	ell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
X. Natural Gas Ga	thering System (NO	GGS):		
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
production operation	ns to the existing or j	planned interconnect of t		aticipated pipeline route(s) connecting the em(s), and the maximum daily capacity of nected.
		thering system $\square$ will $\square$ o the date of first produce	1 1	ather 100% of the anticipated natural gas
	•	-	<u> </u>	ted to the same segment, or portion, of the line pressure caused by the new well(s).
☐ Attach Operator'	s plan to manage pro	oduction in response to the	he increased line pressure.	
Section 2 as provide	d in Paragraph (2) o		27.9 NMAC, and attaches a f	SA 1978 for the information provided in full description of the specific information

Section 3 - Certifications <u>Effective May 25, 2021</u> Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: ☐ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan. 

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: (a) power generation on lease; **(b)** power generation for grid; (c) compression on lease; (d) liquids removal on lease; reinjection for underground storage; (e)

- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- fuel cell production; and (h)
- (i) other alternative beneficial uses approved by the division.

# **Section 4 - Notices**

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

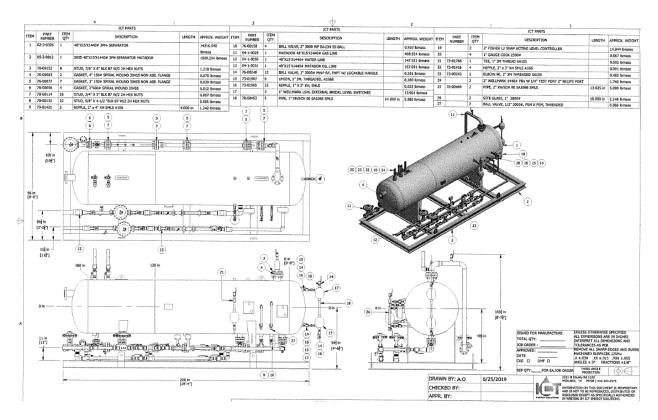
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: John Romano electronically signed
Printed Name: John Romano
Title: Vice President of Production & Facilities
E-mail Address: jromano@ascentenergy.us
Date: 6/15/2021
Phone: 337.300.9204
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

Ascent Energy will sufficiently size the 3-phase test separator with the capability and flexibility of handling gas volumes over 3 times the anticipated IP gas rate. Below is a schematic of the 48"x15' 3 phase 1440 psi ASME code test separator skid outfitted with 3" Daniels Senior Meter run. The 1440 psi pressure rating allows for large flexibility in operating pressure to handle large gas volumes. If the operating pressure in the vessel is raised to 1000 psi it can handle over 15 mmcfd. Our anticipated peak flowback rates will be between 3-4 mmcfd. The size of the vessel along with 3" oil/water outlets, and 3" senior meter run is sufficiently sized to be able to separate large volumes of gas and liquids.

The Daniels Senior meter run allows the orifice plate to be changed without shutting in or blowing down further reducing emissions.



VII. Operational Practices: 
☐ After 3 phase 1440 psi test separator we'll have a 125 psi ASME code 8'x20' heater treater as a second separation mechanism tied into a flash gas sales meter sending heater treater flash gas to sales. Oil will then dump from the heater treater into our oil tanks. The oil/water tank vent piping will have necessary PVRV's (pressure valve/relief valve) and oil/water storage tanks will be 16 oz. The tank vent piping will be sized properly to handle vent gas (6" piping). This vent piping will have a VRU (vapor recovery unit) designed to capture tank vent gas and send to sales. The VRU will be equipped with a recycling system to keep it constantly running to be able to handle slug flow. Additionally, there will be a high pressure/low pressure combo flare that will be oversized to handle 150% of expected IP gas rates at a 98.5% combustion efficiency.

The oil/water tanks will also be equipped with pressure transmitters to ensure the tank pressures are not exceeded in a further effort to minimize venting.

**VIII. Best Management Practices:** 

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

The tank battery will be equipped with bypasses to service meters while still producing to sales. In the event a flare line, flame arrestor, or anything in the flare system needs to be serviced, we will shut the wells in and service once gas is blown down to flare. This will minimize any venting. Additionally, the VRU will have bypasses to send tank vent gas to flare if VRU is down or being serviced. The flare will be an HP/LP combo flare designed with air assist to ensure 98.5% combustion efficiency. Lease operators will be visiting the location daily to check and maintain all equipment ensuring all scrubbers, flame arrestors, and flare ignitor is functioning properly.

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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I. Operator:	Ascent Energy,	LLC	OGI	RID: _	325830		1	Date:	_06/_01/2021
II. Type: ⊠ Or	iginal   Amendm	ent due to □ 19.15.2	27.9.D(6)(a) NMA	AC □ 1	9.15.27.9.D(6)	)(b) N	NMAC □ C	Other.	
If Other, please	describe:								
		information for each			ell or set of we	lls pı	roposed to l	be dri	lled or proposed to
Well Nam	e API	ULSTR	Footages		Anticipated Oil BBL/D		nticipated as MCF/D	F	Anticipated Produced Water BBL/D
Anvil Fed Com 401	Н	1-4-21S-29E	144' FNL & 1032' FEL ~1		~1000	~3000		~2000	
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Anvil Fed Com 702	.H	1-4-21S-29E	150' FNL & 1003'	FEL	~1000	~3000		~200	00
V. Anticipated Sproposed to be re	Schedule: Provide ecompleted from a	ANVIL DCP the following inform single well pad or co	nation for each ne	w or re	completed wel		et of wells	propo	sed to be drilled or
Well Nam	e API	Spud Date	TD Reached Date	Con	Completion nmencement D	ate	Initial Fl Back Da		First Production Date
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Anvil Fed Com 501	Н	1/1/2022	1/30/2022		/2022		5/1/2022		5/15/2022
Anvil Fed Com 601	Н	11/1/2021	11/30/2021		<u> </u>		5/1/2022		5/15/2022
Anvil Fed Com 701	Н	11/1/2021	12/30/2021		<u>/2022</u>		5/1/2022		5/15/2022
Anvil Fed Com 702	.H			2, 20,			-, -,		
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<b>EFFECTIVE APRIL 1, 2022</b>

			E APRIL 1, 2022	
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- (a) power generation on lease;
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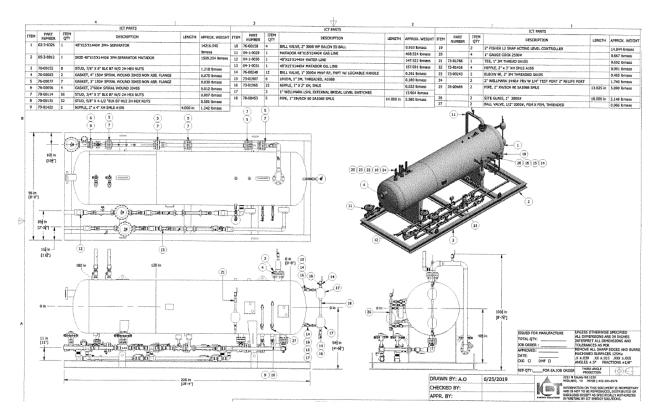
I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: John Romano electronically signed
Printed Name: John Romano
Title: Vice President of Production & Facilities
E-mail Address: jromano@ascentenergy.us
Date: 6/15/2021
Phone: 337.300.9204
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

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The oil/water tanks will also be equipped with pressure transmitters to ensure the tank pressures are not exceeded in a further effort to minimize venting.

**VIII. Best Management Practices:** 

Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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# **ASCENT ENERGY**

EDDY COUNTY, NEW MEXICO (NAD 83 - GRID) SEC. 4 T21S R29E N.M.P.M. (GRID) ANVIL FED COM 601H

ORIGINAL WELLBORE 12 October, 2020

Plan: PROPOSAL #2

Vertical Section at 359.76° (500 usft/in)

7000

11000 11500 12000

8000

Database: Database 1

Company: ASCENT ENERGY

Project: EDDY COUNTY, NEW MEXICO (NAD 83 -

GRID)

Site: SEC. 4 T21S R29E N.M.P.M. (GRID)

Well: ANVIL FED COM 601H Wellbore: ORIGINAL WELLBORE Design: PROPOSAL #2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

**Survey Calculation Method:** 

Well ANVIL FED COM 601H

KB 25' @ 3404.50usft KB 25' @ 3404.50usft

Grid

Minimum Curvature

EDDY COUNTY, NEW MEXICO (NAD 83 - GRID) **Project** 

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

New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

SEC. 4 T21S R29E N.M.P.M. (GRID) Site

Site Position: Northing: 553,850.99 usft Latitude: 32.522111 Easting: 648,987.43 usft Longitude: -103.984069 From: Map **Position Uncertainty:** 0.00 usft Slot Radius: 1.10ft **Grid Convergence:** 0.19°

Well ANVIL FED COM 601H

**Well Position** +N/-S -14.99 usft Northing: 553,836.00 usft Latitude: 32.522070 +E/-W -54.23 usft Easting: 648,933.20 usft Longitude: -103.984245

usfl **Position Uncertainty** 0.00 usft Wellhead Elevation: Ground Level: 3,379.50 usft

Wellbore **ORIGINAL WELLBORE** 

Magnetics Declination **Dip Angle** Field Strength **Model Name Sample Date** (°) (°) (nT) 47,698.70554711 IGRF2020 2020-10-09 6.84 60.13

Design PROPOSAL#2

**Audit Notes:** 

Version: Phase: **PROTOTYPE** Tie On Depth: 0.00

Depth From (TVD) Vertical Section: +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 359.76

Plan Sectio	ns										
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf	Build Rate (°/100usf	Turn Rate (°/100usf	TFO (°)	Target
0.00	0.00	0.00	0.00	-3,404.50	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	-1,404.50	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	12.00	114.61	2,595.62	-808.88	-26.07	56.91	2.00	2.00	0.00	114.61	
4,800.84	12.00	114.61	4,748.36	1,343.86	-216.66	472.92	0.00	0.00	0.00	0.00	
5,400.84	0.00	0.00	5,343.99	1,939.49	-242.73	529.83	2.00	-2.00	0.00	180.00	
9,198.39	0.00	0.00	9,141.54	5,737.04	-242.73	529.83	0.00	0.00	0.00	0.00	KOP - ANVIL FED (
10,098.39	90.00	359.76	9,714.50	6,310.00	330.22	527.43	10.00	10.00	-0.03	359.76	HZ LP - ANVIL FED
20,422.79	90.00	359.75	9,714.50	6,310.00	10,654.53	483.44	0.00	0.00	0.00	-83.15	LTP - ANVIL FED C
20,423.40	90.00	359.77	9,714.50	6,310.00	10,655.14	483.43	3.00	0.00	3.00	90.00	
20,472.79	90.00	359.77	9,714.50	6,310.00	10,704.53	483.24	0.00	0.00	0.00	0.00	BHL - ANVIL FED C

Database: Database 1

Company: ASCENT ENERGY

Project: EDDY COUNTY, NEW MEXICO (NAD 83 -

GRID)

**Site:** SEC. 4 T21S R29E N.M.P.M. (GRID)

Well: ANVIL FED COM 601H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

**Local Co-ordinate Reference:** 

TVD Reference:

North Reference:

**Survey Calculation Method:** 

Well ANVIL FED COM 601H

KB 25' @ 3404.50usft KB 25' @ 3404.50usft

Grid

Planned Surv	/ey									
							Mantiaal	Dl	B. J.J.	<b>-</b>
MD	lua	A:	TVD	SS	.N/ C	- E/ \A/	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	Inc (°)	Azi (°)	(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
SHI -	179ft FNL &		of Sec 4		(,	<b>(</b> ,				
0.00	0.00	0.00	0.00	3,404.50	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	3,304.50	0.00	0.00	0.00	0.00	0.00	0.00
RSTL		0.00	174.50	3,230.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>174.50</b> 200.00	<b>0.00</b> 0.00	<b>0.00</b> 0.00	200.00	3,230.00 3,204.50	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>0.00</b> 0.00	0.00	0.00
300.00	0.00	0.00	300.00	3,104.50	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	3,004.50	0.00	0.00	0.00	0.00	0.00	0.00
SALD				•						
444.50	0.00	0.00	444.50	2,960.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	2,904.50	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	2,804.50	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	2,704.50	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	2,604.50	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	2,504.50	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00 1,100.00	0.00 0.00	0.00 0.00	1,000.00 1,100.00	2,404.50 2,304.50	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,200.00	0.00	0.00	1,200.00	2,204.50	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	2,104.50	0.00	0.00	0.00	0.00	0.00	0.00
	E_SALADO_S		.,							5.55
1,316.50	0.00	0.00	1,316.50	2,088.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	2,004.50	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	1,904.50	0.00	0.00	0.00	0.00	0.00	0.00
1,504.50	0.00	0.00	1,504.50	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	1,804.50	0.00	0.00	0.00	0.00	0.00	0.00
YATE		0.00	1,000.00	1,00 1.00	0.00	0.00	0.00	0.00	0.00	0.00
1,629.50	0.00	0.00	1,629.50	1,775.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	1,704.50	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,604.50	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	1,504.50	0.00	0.00	0.00	0.00	0.00	0.00
	TAN_REEF_		404450	4 400 00						2.22
1,914.50	0.00 RT NUDGE (2	0.00	1,914.50	1,490.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	1,404.50	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	114.61	2,099.98	1,304.52	-0.73	1.59	-0.73	2.00	2.00	0.00
2,200.00	4.00	114.61	2,199.84	1,204.66	-2.91	6.34	-2.93	2.00	2.00	0.00
2,300.00	6.00	114.61	2,299.45	1,105.05	-6.54	14.27	-6.60	2.00	2.00	0.00
2,400.00	8.00	114.61	2,398.70	1,005.80	-11.61	25.35	-11.72	2.00	2.00	0.00
2,500.00	10.00	114.61	2,497.47	907.03	-18.13	39.57	-18.29	2.00	2.00	0.00
	TO 12° INC	11.1.61	2 505 62	000 00	26.07	E6 04	26.24	2.00	2.00	0.00
<b>2,600.00</b> 2,700.00	<b>12.00</b> 12.00	<b>114.61</b> 114.61	<b>2,595.62</b> 2,693.44	<b>808.88</b> 711.06	<b>-26.07</b> -34.73	<b>56.91</b> 75.82	<b>-26.31</b> -35.05	<b>2.00</b> 0.00	0.00	0.00
2,800.00	12.00	114.61	2,791.25	613.25	-43.39	94.72	-43.79	0.00	0.00	0.00
2,900.00	12.00	114.61	2,889.07	515.43	-52.05	113.62	-52.53	0.00	0.00	0.00
3,000.00	12.00	114.61	2,986.88	417.62	-60.71	132.52	-61.27	0.00	0.00	0.00
3,100.00	12.00	114.61	3,084.70	319.80	-69.37	151.42	-70.01	0.00	0.00	0.00
3,200.00	12.00	114.61	3,182.51	221.99	-78.03	170.33	-78.74	0.00	0.00	0.00
3,300.00	12.00	114.61	3,280.33	124.17	-86.69	189.23	-87.48	0.00	0.00	0.00
3,400.00	12.00	114.61	3,378.14	26.36	-95.35	208.13	-96.22	0.00	0.00	0.00
3,500.00	12.00	114.61	3,475.96	-71.46	-104.01	227.03	-104.96	0.00	0.00	0.00
3,600.00	12.00	114.61	3,573.77	-169.27	-112.67	245.93	-113.70	0.00	0.00	0.00

Database: Database 1

Company: ASCENT ENERGY

Project: EDDY COUNTY, NEW MEXICO (NAD 83 -

GRID)

**Site:** SEC. 4 T21S R29E N.M.P.M. (GRID)

Well: ANVIL FED COM 601H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

**Local Co-ordinate Reference:** 

TVD Reference:
MD Reference:

North Reference:

**Survey Calculation Method:** 

Well ANVIL FED COM 601H

KB 25' @ 3404.50usft KB 25' @ 3404.50usft

Grid

Planned Surve	y									
										_
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,700.00 3,800.00	12.00 12.00	114.61 114.61	3,671.59 3,769.40	-267.09 -364.90	-121.33 -129.99	264.84 283.74	-122.44 -131.18	0.00 0.00	0.00 0.00	0.00 0.00
3,900.00 4,000.00	12.00 12.00	114.61 114.61	3,867.22 3,965.03	-462.72 -560.53	-138.65 -147.31	302.64 321.54	-139.91 -148.65	0.00 0.00	0.00 0.00	0.00 0.00
TOP_I	DELAWARE	_								
<b>4,040.35</b> 4,100.00	<b>12.00</b> 12.00	<b>114.61</b> 114.61	<b>4,004.50</b> 4,062.84	<b>-600.00</b> -658.34	<b>-150.80</b> -155.97	<b>329.17</b> 340.44	<b>-152.18</b> -157.39	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>0.00</b> 0.00
	RY_CANYO		,							
4,106.80	12.00	114.61	4,069.50	-665.00	-156.56	341.73	-157.99	0.00	0.00	0.00
4,200.00 4,300.00 4,400.00 4,500.00 4,600.00	12.00 12.00 12.00 12.00 12.00	114.61 114.61 114.61 114.61 114.61	4,160.66 4,258.47 4,356.29 4,454.10 4,551.92	-756.16 -853.97 -951.79 -1,049.60 -1,147.42	-164.63 -173.29 -181.95 -190.61 -199.26	359.35 378.25 397.15 416.05 434.95	-166.13 -174.87 -183.61 -192.35 -201.08	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4,700.00	12.00	114.61	4,649.73	-1,147.42	-207.92	453.86	-201.00	0.00	0.00	0.00
4,800.00	12.00	114.61	4,747.55	-1,343.05	-216.58	472.76	-218.56	0.00	0.00	0.00
	F TANGEN									
<b>4,800.84</b> 4,900.00 5,000.00	<b>12.00</b> 10.02 8.02	<b>114.61</b> 114.61 114.61	<b>4,748.37</b> 4,845.70 4,944.46	<b>-1,343.87</b> -1,441.20 -1,539.96	<b>-216.66</b> -224.54 -231.07	<b>472.92</b> 490.13 504.38	<b>-218.64</b> -226.59 -233.18	<b>0.00</b> 2.00 2.00	<b>0.00</b> -2.00 -2.00	<b>0.00</b> 0.00 0.00
BRUS	HY_CANYC	N								
5,060.55	6.81	114.61	5,004.50	-1,600.00	-234.32	511.48	-236.46	2.00	-2.00	0.00
5,100.00 5,200.00 5,300.00 5,400.00	6.02 4.02 2.02 0.02	114.61 114.61 114.61 114.61	5,043.71 5,143.32 5,243.17 5,343.15	-1,639.21 -1,738.82 -1,838.67 -1,938.65	-236.16 -239.80 -241.99 -242.73	515.48 523.43 528.22 529.83	-238.31 -241.99 -244.20 -244.95	2.00 2.00 2.00 2.00	-2.00 -2.00 -2.00 -2.00	0.00 0.00 0.00 0.00
	O VERTICA		<b>5.040.00</b>	1 200 10	0.40.70	<b>500.00</b>	0440	4.00	1.00	
<b>5,400.84</b> 5,500.00 5,600.00 5,700.00 5,800.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	<b>5,343.99</b> 5,443.15 5,543.15 5,643.15 5,743.15	-1,939.49 -2,038.65 -2,138.65 -2,238.65 -2,338.65	-242.73 -242.73 -242.73 -242.73 -242.73	<b>529.83</b> 529.83 529.83 529.83 529.83	-244.95 -244.95 -244.95 -244.95 -244.95	1.99 0.00 0.00 0.00 0.00	-1.99 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,900.00 6,000.00 6,100.00 6,200.00 6,300.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	5,843.15 5,943.15 6,043.15 6,143.15 6,243.15	-2,438.65 -2,538.65 -2,638.65 -2,738.65 -2,838.65	-242.73 -242.73 -242.73 -242.73 -242.73	529.83 529.83 529.83 529.83 529.83	-244.95 -244.95 -244.95 -244.95 -244.95	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,400.00 6,500.00 6,600.00	0.00 0.00 0.00	0.00 0.00 0.00	6,343.15 6,443.15 6,543.15	-2,938.65 -3,038.65 -3,138.65	-242.73 -242.73 -242.73	529.83 529.83 529.83	-244.95 -244.95 -244.95	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,681.35	_LIME 0.00	0.00	6.624.50	-3,220.00	-242.73	529.83	-244.95	0.00	0.00	0.00
6,700.00	0.00	0.00	6,643.15	-3,220.00 -3,238.65	-242.73 -242.73	529.83	-244.95	0.00	0.00	0.00
6,800.00 <b>AVLN</b>	0.00	0.00	6,743.15	-3,338.65	-242.73	529.83	-244.95	0.00	0.00	0.00
<b>6,801.35</b> 6,900.00 7,000.00 7,100.00 7,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	<b>6,744.50</b> 6,843.15 6,943.15 7,043.15 7,143.15	-3,340.00 -3,438.65 -3,538.65 -3,638.65 -3,738.65	-242.73 -242.73 -242.73 -242.73 -242.73	<b>529.83</b> 529.83 529.83 529.83 529.83	-244.95 -244.95 -244.95 -244.95	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,200.00 7,300.00 7,400.00	0.00 0.00 0.00	0.00 0.00 0.00	7,143.15 7,243.15 7,343.15	-3,736.65 -3,838.65 -3,938.65	-242.73 -242.73 -242.73	529.83 529.83	-244.95 -244.95 -244.95	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

Database: Database 1

Company: ASCENT ENERGY

Project: EDDY COUNTY, NEW MEXICO (NAD 83 -

GRID)

**Site:** SEC. 4 T21S R29E N.M.P.M. (GRID)

Well: ANVIL FED COM 601H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

**Local Co-ordinate Reference:** 

TVD Reference:
MD Reference:

North Reference:

**Survey Calculation Method:** 

Well ANVIL FED COM 601H

KB 25' @ 3404.50usft KB 25' @ 3404.50usft

Grid

Planned Surve	ey 💮									
										_
MD	•	A	TVD	SS	N/ 0	<b>-</b> / \4/	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	Inc (°)	Azi (°)	(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
7,500.00	0.00	0.00	7,443.15	-4,038.65	-242.73	529.83	-244.95	0.00	0.00	0.00
7,600.00	0.00	0.00	7,543.15	-4,138.65	-242.73	529.83	-244.95	0.00	0.00	0.00
7,700.00	0.00	0.00	7,643.15	-4,238.65	-242.73	529.83	-244.95	0.00	0.00	0.00
	SPG_SND									
<b>7,743.35</b> 7,800.00	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>7,686.50</b> 7,743.15	<b>-4,282.00</b> -4,338.65	<b>-242.73</b> -242.73	<b>529.83</b> 529.83	<b>-244.95</b> -244.95	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>0.00</b> 0.00
7,900.00	0.00	0.00	7,843.15	-4,438.65	-242.73	529.83	-244.95	0.00	0.00	0.00
8,000.00	0.00	0.00	7,943.15	-4,538.65	-242.73	529.83	-244.95	0.00	0.00	0.00
2ND_E	BSPG									
8,021.35	0.00	0.00	7,964.50	-4,560.00	-242.73	529.83	-244.95	0.00	0.00	0.00
8,100.00	0.00	0.00	8,043.15	-4,638.65	-242.73	529.83	-244.95	0.00	0.00	0.00
8,200.00 8,300.00	0.00 0.00	0.00 0.00	8,143.15 8,243.15	-4,738.65 -4,838.65	-242.73 -242.73	529.83 529.83	-244.95 -244.95	0.00 0.00	0.00 0.00	0.00 0.00
8,400.00	0.00	0.00	8,343.15	-4,636.65 -4,938.65	-242.73 -242.73	529.83 529.83	-244.95 -244.95	0.00	0.00	0.00
			0,040.10	4,000.00	242.70	020.00	244.00	0.00	0.00	0.00
8,436.35	BSPG_SND 0.00	0.00	8,379.50	-4,975.00	-242.73	529.83	-244.95	0.00	0.00	0.00
8,500.00	0.00	0.00	8,443.15	-5,038.65	-242.73	529.83	-244.95	0.00	0.00	0.00
8,600.00	0.00	0.00	8,543.15	-5,138.65	-242.73	529.83	-244.95	0.00	0.00	0.00
8,700.00	0.00	0.00	8,643.15	-5,238.65	-242.73	529.83	-244.95	0.00	0.00	0.00
8,800.00	0.00	0.00	8,743.15	-5,338.65	-242.73	529.83	-244.95	0.00	0.00	0.00
3RD_I										
8,816.35	0.00	0.00	8,759.50	-5,355.00	-242.73	529.83	-244.95	0.00	0.00	0.00
8,900.00	0.00	0.00	8,843.15	-5,438.65	-242.73	529.83 529.83	-244.95	0.00	0.00	0.00
9,000.00 9,100.00	0.00 0.00	0.00 0.00	8,943.15 9,043.15	-5,538.65 -5,638.65	-242.73 -242.73	529.83 529.83	-244.95 -244.95	0.00 0.00	0.00 0.00	0.00 0.00
,	10°/100ft B		0,010.10	0,000.00	212.70	020.00	211.00	0.00	0.00	0.00
9,198.39	0.00	0.00	9,141.54	-5,737.04	-242.73	529.83	-244.95	0.00	0.00	0.00
9,200.00	0.16	359.76	9,143.15	-5,738.65	-242.73	529.83	-244.94	10.02	10.02	0.00
9,300.00	10.16	359.76	9,242.62	-5,838.12	-233.74	529.79	-235.96	10.00	10.00	0.00
9,400.00	20.16	359.76	9,339.02	-5,934.52	-207.62	529.68	-209.84	10.00	10.00	0.00
9,500.00 9,600.00	30.16 40.16	359.76 359.76	9,429.41 9,511.06	-6,024.91 -6,106.56	-165.16 -107.65	529.51 529.26	-167.38 -109.86	10.00 10.00	10.00 10.00	0.00 0.00
		339.70	9,511.00	-0,100.50	-107.03	529.20	-109.80	10.00	10.00	0.00
3RD B 9,696.91	49.85	359.76	9.579.50	-6,175.00	-39.20	528.98	-41.41	10.00	10.00	0.00
9,700.00	50.16	359.76 359.76	9,581.49	-6,176.99	-3 <b>6.</b> 83	528.97	-39.04	10.00	10.00	0.00
9,800.00	60.16	359.76	9,638.54	-6,234.04	45.14	528.62	42.93	10.00	10.00	0.00
9,900.00	70.16	359.76	9,680.49	-6,275.99	135.78	528.24	133.56	10.00	10.00	0.00
10,000.00	80.16	359.76	9,706.07	-6,301.57	232.32	527.84	230.10	10.00	10.00	0.00
		990ft FWL of								
10,048.32	84.99	359.76	9,712.31	-6,307.81	280.22	527.64	278.01	10.00	10.00	0.00
10,098.39	90.00	& 990ft FWL 359.76	9.714.50	-6,310.00	330.22	527.43	328.01	10.00	10.00	0.00
10,100.00	90.00	359.76	9,714.50	-6,310.00	331.83	527.42	329.62	0.00	0.00	0.00
10,200.00	90.00	359.76	9,714.50	-6,310.00	431.83	527.00	429.62	0.00	0.00	0.00
10,300.00	90.00	359.76	9,714.50	-6,310.00	531.83	526.59	529.62	0.00	0.00	0.00
10,400.00	90.00	359.76	9,714.50	-6,310.00	631.83	526.17	629.62	0.00	0.00	0.00
10,500.00	90.00	359.76	9,714.50	-6,310.00	731.83	525.75	729.62	0.00	0.00	0.00
10,600.00	90.00	359.76	9,714.50	-6,310.00	831.83	525.33	829.62	0.00	0.00	0.00
10,700.00 10,800.00	90.00 90.00	359.76 359.76	9,714.50 9,714.51	-6,310.00 -6,310.01	931.83 1,031.83	524.91 524.49	929.62 1,029.62	0.00 0.00	0.00 0.00	0.00 0.00
10,900.00	90.00	359.76	9,714.51	-6,310.01	1,131.83	524.07	1,129.62	0.00	0.00	0.00
11,000.00	90.00	359.76	9,714.51	-6,310.01	1,131.83	523.65	1,129.62	0.00	0.00	0.00
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Database: Database 1

Company: ASCENT ENERGY

Project: EDDY COUNTY, NEW MEXICO (NAD 83 -

GRID)

**Site:** SEC. 4 T21S R29E N.M.P.M. (GRID)

Well: ANVIL FED COM 601H ORIGINAL WELLBORE

Design: PROPOSAL #2

**Local Co-ordinate Reference:** 

TVD Reference:
MD Reference:

North Reference:

**Survey Calculation Method:** 

Well ANVIL FED COM 601H

KB 25' @ 3404.50usft KB 25' @ 3404.50usft

Grid

Planned Surve	ey .									
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,100.00	90.00	359.76	9,714.51	-6,310.01	1,331.83	523.23	1,329.62	0.00	0.00	0.00
11,200.00	90.00	359.76	9,714.51	-6,310.01	1,431.82	522.81	1,429.62	0.00	0.00	0.00
11,300.00	90.00	359.76	9,714.51	-6,310.01	1,531.82	522.39	1,529.62	0.00	0.00	0.00
11,400.00	90.00	359.76	9,714.51	-6,310.01	1,631.82	521.97	1,629.62	0.00	0.00	0.00
11,500.00	90.00	359.76	9,714.51	-6,310.01	1,731.82	521.55	1,729.62	0.00	0.00	0.00
11,600.00	90.00	359.76	9,714.51	-6,310.01	1,831.82	521.12	1,829.62	0.00	0.00	0.00
11,700.00	90.00	359.76	9,714.51	-6,310.01	1,931.82	520.70	1,929.62	0.00	0.00	0.00
11,800.00	90.00	359.76	9,714.51	-6,310.01	2,031.82	520.28	2,029.62	0.00	0.00	0.00
11,900.00	90.00	359.76	9,714.51	-6,310.01	2,131.82	519.86	2,129.62	0.00	0.00	0.00
12,000.00	90.00	359.76	9,714.51	-6,310.01	2,231.82	519.44	2,229.62	0.00	0.00	0.00
12,100.00	90.00	359.76	9,714.51	-6,310.01	2,331.82	519.02	2,329.62	0.00	0.00	0.00
12,200.00	90.00	359.76	9,714.51	-6,310.01	2,431.82	518.60	2,429.62	0.00	0.00	0.00
12,300.00	90.00	359.76	9,714.52	-6,310.02	2,531.81	518.17	2,529.62	0.00	0.00	0.00
12,400.00	90.00	359.76	9,714.52	-6,310.02	2,631.81	517.75	2,629.62	0.00	0.00	0.00
12,500.00	90.00	359.76	9,714.52	-6,310.02	2,731.81	517.33	2,729.62	0.00	0.00	0.00
12,600.00	90.00	359.76	9,714.52	-6,310.02	2,831.81	516.91	2,829.62	0.00	0.00	0.00
12,700.00	90.00	359.76	9,714.52	-6,310.02	2,931.81	516.48	2,929.62	0.00	0.00	0.00
12,800.00	90.00	359.76	9,714.52	-6,310.02	3,031.81	516.06	3,029.62	0.00	0.00	0.00
12,900.00	90.00	359.76	9,714.52	-6,310.02	3,131.81	515.64	3,129.62	0.00	0.00	0.00
13,000.00	90.00	359.76	9,714.52	-6,310.02	3,231.81	515.22	3,229.62	0.00	0.00	0.00
13,100.00	90.00	359.76	9,714.52	-6,310.02	3,331.81	514.79	3,329.62	0.00	0.00	0.00
13,200.00	90.00	359.76	9,714.52	-6,310.02	3,431.81	514.37	3,429.62	0.00	0.00	0.00
13,300.00	90.00	359.76	9,714.52	-6,310.02	3,531.81	513.95	3,529.62	0.00	0.00	0.00
13,400.00	90.00	359.76	9,714.52	-6,310.02	3,631.80	513.52	3,629.62	0.00	0.00	0.00
13,500.00	90.00	359.76	9,714.52	-6,310.02	3,731.80	513.10	3,729.62	0.00	0.00	0.00
13,600.00	90.00	359.76	9,714.52	-6,310.02	3,831.80	512.68	3,829.62	0.00	0.00	0.00
13,700.00	90.00	359.76	9,714.52	-6,310.02	3,931.80	512.25	3,929.62	0.00	0.00	0.00
13,800.00	90.00	359.76	9,714.52	-6,310.02	4,031.80	511.83	4,029.62	0.00	0.00	0.00
13,900.00	90.00	359.76	9,714.52	-6,310.02	4,131.80	511.40	4,129.62	0.00	0.00	0.00
14,000.00	90.00	359.76	9,714.52	-6,310.02	4,231.80	510.98	4,229.62	0.00	0.00	0.00
14,100.00	90.00	359.76	9,714.52	-6,310.02	4,331.80	510.56	4,329.62	0.00	0.00	0.00
14,200.00	90.00	359.76	9,714.52	-6,310.02	4,431.80	510.13	4,429.62	0.00	0.00	0.00
14,300.00	90.00	359.76	9,714.52	-6,310.02	4,531.80	509.71	4,529.62	0.00	0.00	0.00
14,400.00	90.00	359.76	9,714.52	-6,310.02	4,631.80	509.28	4,629.62	0.00	0.00	0.00
14,500.00	90.00	359.76	9,714.52	-6,310.02	4,731.80	508.86	4,729.62	0.00	0.00	0.00
14,600.00	90.00	359.76	9,714.52	-6,310.02	4,831.79	508.43	4,829.62	0.00	0.00	0.00
14,700.00	90.00	359.76	9,714.52	-6,310.02	4,931.79	508.01	4,929.62	0.00	0.00	0.00
14,800.00	90.00	359.76	9,714.52	-6,310.02	5,031.79	507.58	5,029.62	0.00	0.00	0.00
14,900.00	90.00	359.76	9,714.52	-6,310.02	5,131.79	507.16	5,129.62	0.00	0.00	0.00
15,000.00	90.00	359.76	9,714.52	-6,310.02	5,231.79	506.73	5,229.62	0.00	0.00	0.00
15,100.00	90.00	359.76	9,714.52	-6,310.02	5,331.79	506.30	5,329.62	0.00	0.00	0.00
15,200.00	90.00	359.76	9,714.52	-6,310.02	5,431.79	505.88	5,429.62	0.00	0.00	0.00
15,300.00	90.00	359.76	9,714.52	-6,310.02	5,531.79	505.45	5,529.62	0.00	0.00	0.00
15,400.00	90.00	359.76	9,714.52	-6,310.02	5,631.79	505.03	5,629.62	0.00	0.00	0.00
15,500.00	90.00	359.76	9,714.52	-6,310.02	5,731.79	504.60	5,729.62	0.00	0.00	0.00
15,600.00	90.00	359.76	9,714.52	-6,310.02	5,831.79	504.17	5,829.62	0.00	0.00	0.00
15,700.00	90.00	359.76	9,714.52	-6,310.02	5,931.78	503.75	5,929.62	0.00	0.00	0.00
15,800.00	90.00	359.76	9,714.52	-6,310.02	6,031.78	503.32	6,029.62	0.00	0.00	0.00
15,900.00	90.00	359.76	9,714.52	-6,310.02	6,131.78	502.89	6,129.62	0.00	0.00	0.00
16,000.00	90.00	359.76	9,714.52	-6,310.02	6,231.78	502.47	6,229.62	0.00	0.00	0.00
16,100.00	90.00	359.76	9,714.52	-6,310.02	6,331.78	502.04	6,329.62	0.00	0.00	0.00
16,200.00	90.00	359.76	9,714.52	-6,310.02	6,431.78	501.61	6,429.62	0.00	0.00	0.00
16,300.00	90.00	359.76	9,714.52	-6,310.02	6,531.78	501.18	6,529.62	0.00	0.00	0.00

Database: Database 1

Company: ASCENT ENERGY

Project: EDDY COUNTY, NEW MEXICO (NAD 83 -

GRID)

**Site:** SEC. 4 T21S R29E N.M.P.M. (GRID)

Well: ANVIL FED COM 601H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

**Local Co-ordinate Reference:** 

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method: Well ANVIL FED COM 601H

KB 25' @ 3404.50usft KB 25' @ 3404.50usft

Grid

MD	Planned Surve	ey 💮									
16,400.00 90.00 359.75 9,714.52 -6,310.02 6,631.78 500.76 6,629.62 0.00 0.00 0.00 1,6500.00 90.00 359.75 9,714.52 -6,310.02 6,731.78 500.33 6,729.62 0.00 0.00 0.00 1,6700.00 90.00 359.75 9,714.52 -6,310.02 6,831.78 499.96 6,829.62 0.00 0.00 0.00 1,6700.00 90.00 359.75 9,714.52 -6,310.02 6,831.78 499.97 6,229.62 0.00 0.00 0.00 1,6700.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 499.64 7,029.62 0.00 0.00 0.00 1,6700.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 499.67 7,029.62 0.00 0.00 0.00 1,7000.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 498.62 7,129.62 0.00 0.00 0.00 1,7100.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 498.62 7,129.62 0.00 0.00 0.00 1,7200.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 498.67 7,229.62 0.00 0.00 0.00 1,7200.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 498.60 7,229.62 0.00 0.00 0.00 1,7200.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 498.60 7,229.62 0.00 0.00 0.00 1,7200.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 495.76 7,329.62 0.00 0.00 0.00 1,7200.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 496.90 7,529.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,531.77 496.90 7,529.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,731.77 496.90 7,529.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,731.77 496.90 7,529.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,731.77 496.90 7,229.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 496.14 7,629.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 496.14 7,629.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 496.14 7,229.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 496.14 7,229.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 496.14 7,229.62 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 7,311.77 496.14 7,229.62 0.00 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 8,311.76 491.75 8,229.62 0.00 0.00 0.00 0.00 1,7500.00 90.00 359.75 9,714.52 -6,310.02 8,311.76 491.75 8,229.62 0								Section	Rate	Rate	Rate
16,500.00   90.00   359.75   9,714.52   -6,310.02   6,731.78   500.33   6,729.62   0.00   0.00   0.00   16,700.00   90.00   359.75   9,714.52   -6,310.02   6,331.78   499.47   6,229.62   0.00   0.00   0.00   0.00   16,800.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   499.47   6,229.62   0.00   0.00   0.00   0.00   17,000.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   499.47   7,229.62   0.00   0.00   0.00   17,000.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   499.47   7,229.62   0.00   0.00   0.00   17,200.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   497.37   7,229.62   0.00   0.00   0.00   17,200.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.47   7,229.62   0.00   0.00   0.00   17,200.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.47   7,229.62   0.00   0.00   0.00   17,200.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.47   7,229.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.47   7,729.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   495.61   7,229.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   495.61   7,229.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   495.61   7,229.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   495.61   7,229.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   495.61   7,229.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   8,311.76   494.75   8,029.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.52   -6,310.02   8,311.76   494.75   8,029.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.52   -6,310.02   8,311.76   494.75   8,029.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.51   -6,310.01   8,311.76   494.75   8,029.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.51   -6,310.01   8,	(usit)	(°)	(°)	(usit)	(usit)		(usft)	(usit)	(*/100usit)	(*/100usit)	(*/100usit)
16,600.00   90.00   359.75   9,714.52   -6,310.02   6,831.78   499.40   6,229.62   0.00   0.00   0.00   16,800.00   90.00   359.75   9,714.52   -6,310.02   7,031.77   499.04   7,029.62   0.00   0.00   0.00   16,900.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   498.62   7,129.62   0.00   0.00   0.00   17,000.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   498.62   7,129.62   0.00   0.00   0.00   17,000.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   498.19   7,229.62   0.00   0.00   0.00   17,200.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   498.19   7,229.62   0.00   0.00   0.00   17,300.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.90   7,529.62   0.00   0.00   0.00   17,400.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.90   7,529.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.90   7,529.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.90   7,529.62   0.00   0.00   0.00   17,500.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   496.18   7,829.62   0.00   0.00   0.00   17,7800.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   495.18   7,229.62   0.00   0.00   0.00   17,7800.00   90.00   359.75   9,714.52   -6,310.02   7,331.77   495.18   7,229.62   0.00   0.00   0.00   17,800.00   90.00   359.75   9,714.52   -6,310.02   8,131.76   494.75   8,029.62   0.00   0.00   0.00   17,800.00   90.00   359.75   9,714.52   -6,310.02   8,131.76   494.75   8,029.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.52   -6,310.02   8,131.76   494.75   8,029.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.52   -6,310.02   8,331.76   494.87   8,029.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.52   -6,310.02   8,331.76   494.87   493.89   8,229.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.51   -6,310.01   8,331.76   494.87   493.89   8,229.62   0.00   0.00   0.00   18,000.00   90.00   359.75   9,714.51   -6,310.0	,			-, -	,			,			
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18,000.00 90.00 359.75 9,714.52 6,310.02 8,231.76 493.89 8,229.62 0.00 0.00 0.00 18,200.00 90.00 359.75 9,714.52 6,310.02 8,331.76 493.46 8,329.62 0.00 0.00 0.00 0.00 18,200.00 90.00 359.75 9,714.51 6,310.01 8,531.76 492.60 8,529.62 0.00 0.00 0.00 0.00 18,400.00 90.00 359.75 9,714.51 6,310.01 8,631.76 492.60 8,529.62 0.00 0.00 0.00 0.00 18,500.00 90.00 359.75 9,714.51 6,310.01 8,731.76 491.74 8,729.62 0.00 0.00 0.00 0.00 18,500.00 90.00 359.75 9,714.51 6,310.01 8,731.76 491.74 8,729.62 0.00 0.00 0.00 18,700.00 90.00 359.75 9,714.51 6,310.01 8,731.76 491.74 8,729.62 0.00 0.00 0.00 18,700.00 90.00 359.75 9,714.51 6,310.01 8,731.76 491.31 8,829.62 0.00 0.00 0.00 0.00 18,700.00 90.00 359.75 9,714.51 6,310.01 8,731.76 491.31 8,829.62 0.00 0.00 0.00 0.00 18,700.00 90.00 359.75 9,714.51 6,310.01 8,731.76 490.88 8,299.62 0.00 0.00 0.00 18,800.00 90.00 359.75 9,714.51 6,310.01 9,031.76 490.88 9,029.62 0.00 0.00 0.00 19,000 0.00 359.75 9,714.51 6,310.01 9,31.75 490.02 9,129.62 0.00 0.00 0.00 19,000 0.00 359.75 9,714.51 6,310.01 9,331.75 489.02 9,129.62 0.00 0.00 0.00 19,000 90.00 359.75 9,714.51 6,310.01 9,331.75 489.59 9,229.62 0.00 0.00 0.00 19,200.00 90.00 359.75 9,714.51 6,310.01 9,331.75 489.59 9,229.62 0.00 0.00 0.00 19,200.00 90.00 359.75 9,714.51 6,310.01 9,331.75 488.73 9,429.62 0.00 0.00 0.00 19,200.00 90.00 359.75 9,714.51 6,310.01 9,331.75 488.73 9,429.62 0.00 0.00 0.00 19,300.00 90.00 359.75 9,714.51 6,310.01 9,331.75 487.43 9,29.62 0.00 0.00 0.00 19,300.00 90.00 359.75 9,714.51 6,310.01 9,331.75 487.43 9,29.62 0.00 0.00 0.00 0.00 19,500.00 90.00 359.75 9,714.51 6,310.01 9,331.75 487.43 9,29.62 0.00 0.00 0.00 0.00 19,500.00 90.00 359.75 9,714.51 6,310.01 9,331.75 487.43 9,29.62 0.00 0.00 0.00 0.00 19,500.00 90.00 359.75 9,714.51 6,310.01 9,331.75 487.43 9,29.96 0.00 0.00 0.00 0.00 19,500.00 90.00 359.75 9,714.51 6,310.01 9,331.75 487.40 9,29.62 0.00 0.00 0.00 0.00 19,800.00 90.00 359.75 9,714.50 6,310.00 10,331.75 487.40 9,29.62 0.00 0.00 0.00 0.00 0.00 19,800.00 90.00 359.75 9,714.50 6,310.00 10,331.74 484.	17,800.00	90.00	359.75	9,714.52	-6,310.02	8,031.76	494.75	8,029.62	0.00	0.00	0.00
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Database: Database 1

Company: ASCENT ENERGY

Project: EDDY COUNTY, NEW MEXICO (NAD 83 -

GRID)

**Site:** SEC. 4 T21S R29E N.M.P.M. (GRID)

Well: ANVIL FED COM 601H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

**Local Co-ordinate Reference:** 

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method:

Well ANVIL FED COM 601H

KB 25' @ 3404.50usft KB 25' @ 3404.50usft

Grid

Formations						
	MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	174.50	174.50	RSTLR		0.00	
	444.50	444.50	SALDO		0.00	
	1,316.50	1,316.50	BASE_SALADO_SALTS		0.00	
	1,504.50	1,504.50	TANSIL		0.00	
	1,629.50	1,629.50	YATES		0.00	
	1,914.50	1,914.50	CAPITAN_REEF_TOP		0.00	
	4,040.35	4,004.50	TOP_DELAWARE_SAND		0.00	
	4,106.80	4,069.50	CHERRY_CANYON		0.00	
	5,060.55	5,004.50	BRUSHY_CANYON		0.00	
	6,681.35	6,624.50	BSPG_LIME		0.00	
	6,801.35	6,744.50	AVLN		0.00	
	7,743.35	7,686.50	1ST_BSPG_SND		0.00	
	8,021.35	7,964.50	2ND_BSPG		0.00	
	8,436.35	8,379.50	2ND_BSPG_SND		0.00	
	8,816.35	8,759.50	3RD_BSPG		0.00	
	9,696.91	9,579.50	3RD BSPG S		0.00	

Plan Annotations				
		Local Cod	ordinates	
MD (usft)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Comment
0.00	0.00	0.00	0.00	SHL: 179ft FNL & 1009ft FEL of Sec 4
2,000.00	2,000.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2,600.00	2,595.62	-26.07	56.91	EOB TO 12° INC
4,800.84	4,748.37	-216.66	472.92	END OF TANGENT
5,400.84	5,343.99	-242.73	529.83	EOD TO VERTICAL
9,198.39	9,141.54	-242.73	529.83	KOP (10°/100ft BUR)
10,048.32	9,712.31	280.22	527.64	FTP: 100ft FSL & 990ft FWL of Sec 33
10,098.39	9,714.50	330.22	527.43	HZ LP: 150ft FSL & 990ft FWL of Sec 33
20,422.79	9,714.50	10,654.53	483.44	LTP: 100ft FNL & 990ft FWL of Sec 28
20,472.79	9,714.50	10,704.53	483.24	BHL: 50ft FNL & 990ft FWL of Sec 28

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | Ascent Energy LLC

LEASE NO.: | NMNM070286

**WELL NAME & NO.:** Anvil Federal Com 601H

**SURFACE HOLE FOOTAGE:** 179'/N & 1009'/E **BOTTOM HOLE FOOTAGE** 50'/N & 990'/W

**LOCATION:** | Section 4, T.21 S., R.29 E., NMPM

**COUNTY:** Eddy County, New Mexico

COA

H2S	• Yes	O No	
Potash	O None	Secretary	• R-111-P
Cave/Karst Potential	O Low	Medium	• High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other
Wellhead	Conventional	• Multibowl	O Both
Other	✓ 4 String Area		□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>☑</b> COM	□ Unit

#### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **unknown** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

#### **B. CASING**

- 1. The 13-3/8 inch surface casing shall be set at approximately 350 feet (a minimum of 70 feet (Eddy 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.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** 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 1 casing and shall be set at approximately 1,602 feet is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following: (Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)
  - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
  - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

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- 3. The minimum required fill of cement behind the **7-5/8 inch** intermediate 2 casing and shall be set at approximately **4,002 feet** is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

- 4. The minimum required fill of cement behind the **5-1/2 inch** production casing with a tie-back to the surface is:
  - Cement should tie-back at least **50 feet** on top of Capitan Reef top **or 200 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

#### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. 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, intermediate 1, and intermediate 2 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.

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#### 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.

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# **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)
  - Eddy County
     Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575)
     361-2822
  - 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 2<sup>nd</sup> 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.

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#### 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.

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#### 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

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- 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.

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#### 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.

YJ (06-07-2021)

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- a. All personnel will be trained in  $H_2S$  working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each briefing area will be  $\geq 150$ ' from the wellhead, perpendicular from one another, and easily entered and exited. See H<sub>2</sub>S page 5 for more details.
- c. H<sub>2</sub>S Safety Equipment/Systems:
  - i. Well Control Equipment
  - Flare line will be  $\geq 150$ ' from the wellhead and ignited by a flare gun.
  - Beware of SO<sub>2</sub> created by flaring.
  - Choke manifold will have a remotely operated choke.
  - Mud gas separator
  - ii. Protective Equipment for Personnel
  - Every person on site will wear a personal  $H_2S$  and  $SO_2$  monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.
  - One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
  - Four work/escape packs will be on the rig floor. Each pack will have a sufficiently long hose to allow unimpaired work activity.
  - Four emergency escape packs will be in the doghouse for emergency evacuation.
  - Hand signals will be used when wearing protective breathing apparatus.
  - Stokes litter or stretcher
  - Two full OSHA compliant body harnesses
  - A 100' long x 5/8" OSHA compliant rope
  - One 20-pound ABC fire extinguisher
  - iii. H<sub>2</sub>S Detection & Monitoring Equipment
  - Every person on site will wear a personal  $H_2S$  and  $SO_2$  monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.

- A stationary detector with three sensors will be in the doghouse.
- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

### iv. Visual Warning System

- A color-coded H<sub>2</sub>S condition sign will be set at each pad entrance.
- Color-coded condition flag will be installed to indicate current  $H_2S$  conditions.
- Two wind socks will be installed that will be visible from all sides.

### v. Mud Program

- A water based mud with a pH of  $\geq 10$  will be maintained to control corrosion,  $H_2S$  gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing  $H_2S$  gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on site to scavenge and/or neutralize  $H_2S$  where formation pressures are unknown.

# vi. Metallurgy

- All equipment that has the potential to be exposed to  $H_2S$  will be suitable for  $H_2S$  service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).

# vii. Communication from well site

- Cell phones and/or two-way radios will be used to communicate from the well site.
- d. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain  $H_2S$ .

Company	/ Personnel	to	be	Notified
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Dean diribel, vice i resident completions office. (720) 7 10-099	Dean Gimbel,	Vice President Completions	Office: (720)	710-8995
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Mobile: (303) 945-1323

Matt Ward, Chief Operations Officer Mobile: (303) 506-6647

Ascent Emergency Contact Number (303) 281-9951

### Local & County Agencies

Monument Fire Department	911 or (575) 393-4339

Hobbs Fire Marshal (575) 391-8185

Lea County Sheriff (Lovington) 911 or (575) 396-3611

Lea County Emergency Management (Lovington) (575) 396-8602

Lea Regional Medical Center Hospital (Hobbs) (575) 492-5000

# State Agencies

NM Oil Conservation (Hobbs) (575) 370-3186

NM Oil Conservation (Santa Fe) (505) 476-3440

NM Dept. of Transportation (Roswell) (575) 637-7201

# Federal Agencies

BLM Carlsbad Field Office	(575) 234-5972
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BLM Hobbs Field Station (575) 393-3612

National Response Center (800) 424-8802

US EPA Region 6 (Dallas) (800) 887-6063

(214) 665-6444

# <u>Veterinarians</u>

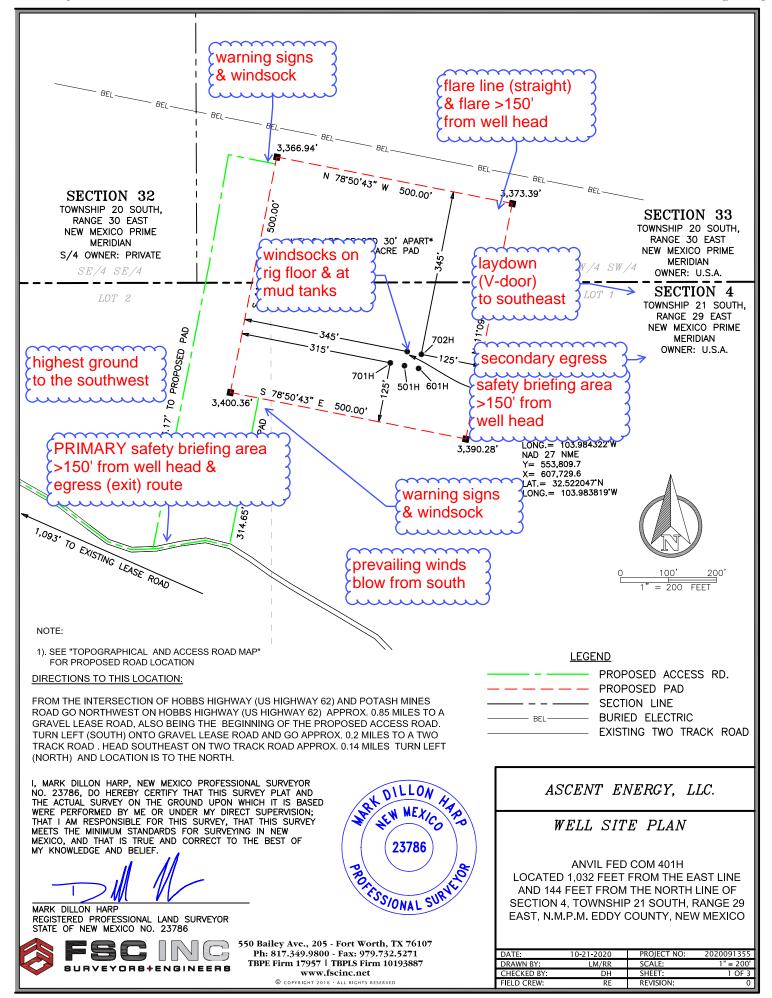
Dal Paso Animal Hospital (Hobbs)	(575) 397-2286		
Hobbs Animal Clinic & Pet Care (Hobbs)	(575) 392-5563		
Great Plains Veterinary Clinic & Hospital (Hobbs)	(575) 392-5513		

# Residents within 2 miles

No residents are within 2 miles.

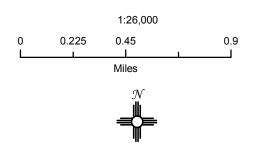
# Air Evacuation

Med Flight Air Ambulance (Albuquerque)	(800) 842-4431
Lifeguard (Albuquerque)	(888) 866-7256



Section 04, Township 21S, Range 29E Eddy County, New Mexico

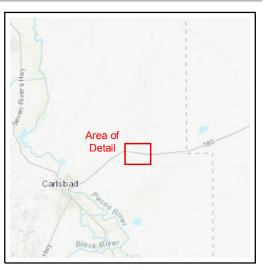
Surface Hole Location



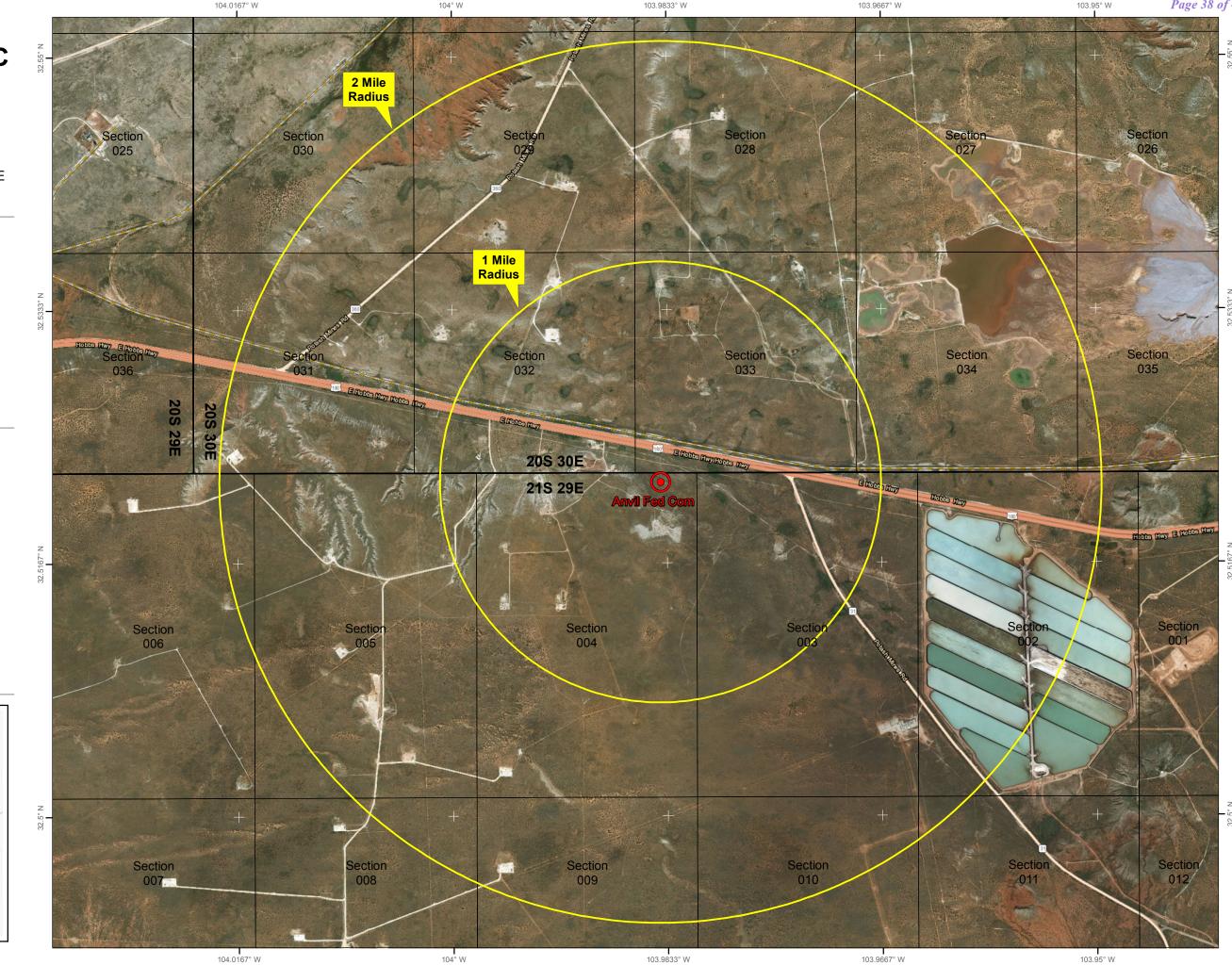
NAD 1983 New Mexico State Plane East FIPS 3001 Feet

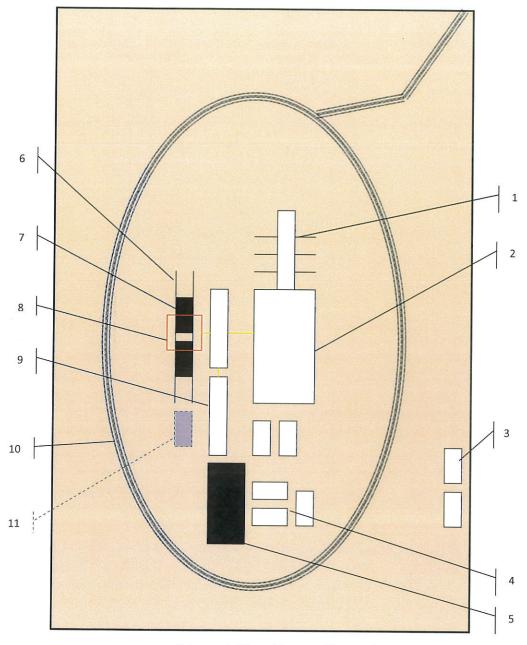


Prepared by Permits West, Inc., June 12, 2018 for Ascent Energy, LLC



Released to Imaging: 6/28/2021 2:48:52 PM





Schematic Closed Loop Drilling Rig\*

- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

\*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available





Above: Centrifugal Closed Loop System



Closed Loop Drilling System: Mud tanks to right (1)

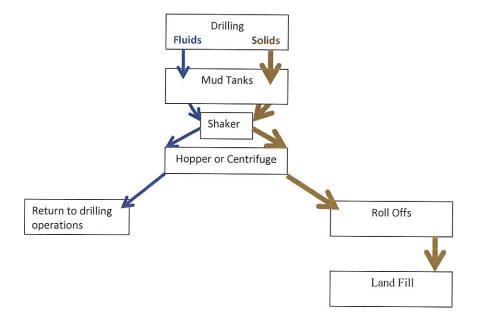
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

Roll offs on skids (5)

#### Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 33913

#### **COMMENTS**

Operator:	OGRID:
ASCENT ENERGY, LLC.	325830
1125 17th St Denver, CO 80202	Action Number: 33913
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 6/28/2021	6/28/2021

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CONDITIONS

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1125 17th St	Action Number:
Denver, CO 80202	33913
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created	Condition	Condition
Ву		Date
kpickford	Notify OCD 24 hours prior to casing & cement	6/28/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/28/2021
	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/28/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	6/28/2021
	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/28/2021