Form 3160-3 (June 2015)					OME	M APPR(3 No. 1004 3: January	-0137			
	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT									
APPLICATION FOR PERMIT TO D	RILL C	DR F	REENTER		6. If Indian, Allotee or Tribe Name					
la. Type of work:	EENTER				7. If Unit or CA	Agreemen	t, Name and No.			
	ther	_			8. Lease Name a	nd Well N	0.			
1c. Type of Completion: ☐ Hydraulic Fracturing ✔ Sin	ngle Zone	e	Multiple Zone		BIG N TASTY	2 STATE	СОМ			
					71H					
2. Name of Operator SPUR ENERGY PARTNERS LLC					9. API Well No.	30-01	5-54042			
3a. Address 9655 KATY FREEWAY, SUITE 500, Houston, TX 77024	3b. Phot (832) 93		5. (include area code 548	2)	10. Field and Po FREN/GLORIE	· 1	5			
4. Location of Well (Report location clearly and in accordance w	2		1 ,				nd Survey or Area			
At surface LOT 4 / 995 FNL / 120 FWL / LAT 32.86816					SEC 2/T17S/R3	STE/INIVIP				
At proposed prod. zone SENE / 1815 FNL / 50 FEL / LAT		9455	6 / LONG -103.831	8916	12. County or Pa	rich	13. State			
14. Distance in miles and direction from nearest town or post offi 5 miles					EDDY		NM			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No (16. No of acres in lease17. Spacin319.6			ng Unit dedicated	to this wel	1			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet	BIA Bond No. in 18001783	file								
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3991 feet	22. App 09/01/2		nate date work will s	start*	23. Estimated du60 days	iration				
	24. A	ttacl	nments							
The following, completed in accordance with the requirements of (as applicable)	Onshore	Oil a	and Gas Order No. 1	, and the H	Iydraulic Fracturii	ng rule per	43 CFR 3162.3-3			
 Well plat certified by a registered surveyor. A Drilling Plan. 			4. Bond to cover the Item 20 above).	e operation	s unless covered b	y an existi	ng bond on file (see			
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)		the	 Operator certific Such other site sp BLM. 		mation and/or plan	s as may b	e requested by the			
25. Signature (Electronic Submission)			(Printed/Typed) WOOD / Ph: (83)	2) 930-85	48	Date 04/17	7/2023			
Title President										
Approved by (Signature)	N	ame	(Printed/Typed)			Date				
(Electronic Submission)			LAYTON / Ph: (57	75) 234-59	959	08/02	2/2023			
Title Assistant Field Manager Lands & Minerals		ffice arlsb	ad Field Office							
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds le	gal o	r equitable title to th	ose rights	in the subject leas	e which w	ould entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of						to any dep	partment or agency			



*(Instructions on page 2)

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(Continued on page 2)

District I 1625 N. French Dr., Hobbs, NM 88240

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

District III

District IV

Phone: (575) 393-6161 Fax: (575) 393-0720 District II

1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170

Form C-102

District Office

Revised August 1, 2011

AMENDED REPORT

Submit one copy to appropriate

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION PLAT ¹ API Number 2 Pool Code ³ Pool Name 30-015-54042 26770 FREN; GLORIETA-YESO ⁴Property Code 6 Well Number 5 Property Name BIG N TASTY 2 STATE COM 334578 71H 7 OGRID NO. 8 Operator Name 9Elevation 3991' SPUR ENERGY PARTNERS LLC. 328947 ¹⁰ Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet From the East/West line County 4 2 17S 31E 995 NORTH 120 WEST EDDY ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 2 50 Η 17S 31E 1815 NORTH EAST EDDY 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 319.6

State of New Mexico

OIL CONSERVATION DIVISION

Santa Fe, NM 87505

1220 South St. Francis Dr.

Energy, Minerals & Natural Resources Department

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

¹⁶ <u>GEODETIC DATA</u> NAD 83 GRID – NM EAST	<u>BOTTOM HOLE (BH) – SEC 2</u> N: 679130.1 – E: 695300.6	F: FOUND BRASS C N: 680945.0 – E:		¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete</i>
<u>SURFACE LOCATION (SL) – SEC 2</u> N: 679913.7 – E: 690185.9	LAT: 32.8659455° N LONG: 103.8318916° W	G: FOUND BRASS (CAP "1916"	to the best of my knowledge and belief, and that this organization either
LAT: 32.8681650° N LONG: 103.8485377° W	CORNER DATA	N: 678307.8 – E:		owns a working interest or unleased mineral interest in the land including
KICK OFF POINT (KOP) - SEC 3	NAD 83 GRID - NM EAST	H: FOUND BRASS (N: 675668.0 - E:		the proposed bottom hole location or has a right to drill this well at this
<u>1682' FNL & 490' FEL</u> N: 679222.1 – E: 689580.2	A: FOUND 1/2" REBAR N: 675594.5 – E: 684811.1	I: FOUND BRASS C		location pursuant to a contract with an owner of such a mineral or working
LAT: 32.8662717° N	B: CALCULATED CORNER	N: 675650.7 - E:		interest, or to a voluntary pooling agreement or a compulsory pooling
LONG: 103.8505204* W	N: 680870.9 – E: 684780.1	J: FOUND BRASS C		order heretofore entered by the division.
<u>FIRST_TAKE_POINT_(FTP)</u> 1815'_FNL_&_100'_FWLSEC_2	C: FOUND BRASS CAP "1916" N: 680888.4 – E: 687419.6	N: 675630.4 – E:		Sarah Chapman05/16/2023
N: 679093.8 – E: 690170.5 LAT: 32.8659115' N		K: FOUND BRASS (N: 678270.8 – E:		Signature Date Date
LONG: 103.8486000' W	D: FOUND BRASS CAP "1916" N: 680907.6 – E: 690060.3			Printed Name
<u>LAST TAKE POINT (LTP)</u> 1815' FNL & 100' FEL – SEC 2	E: FOUND BRASS CAP "1916"			SCHAPMAN@SPURENERGY.COM
N: 679129.8 – E: 695250.6 LAT: 32.8659452° N	N: 680926.1 - E: 692700.3			E-mail Address
LONG: 103.8320544° W	D	E	Ð	
B	LOT 1	0T 3 LOT 2		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this
LOT 4 LOT 3 LOT 2 (39.93 Acs.) (39.93 Acs.) (39.91 Acs.)			LOT 1 (39.90 Acs.)	plat was plotted from field notes of actual surveys
	120' (39.90 Acs.)		18	made by me or under my supervision, and that the
				same is true and correct to the <u>best of my belief</u> .
		<u>5'39"E 5081.55'</u> (FTP–LTP)		10/05/2022 NEE BE
	KOP-/ FTP		B.H. 50'-	
	⊢	2		Date of Survey Signature and Seal of Profesional Surveyor
				$ \mathcal{A} \setminus \mathcal{I} $
				05/16/2023
				14400
				Certificate Number
A	J		\oplus	REV: ADD KOP - 05/09/2023

Job No.: LS22040383R3

Released to Imaging: 8/3/2023 5:25:59 PM

	State of New Mexico Submit Electronical Energy, Minerals and Natural Resources Department Via E-permitting Oil Conservation Division 1220 G = 1 G = E												
1220 South St. Francis Dr. Santa Fe, NM 87505													
	N	ATURAL GA	AS MANA(GEMENT PI	LAN								
This Natural Gas Manaş	gement Plan m	ust be submitted wi	th each Applicat	ion for Permit to I	Drill (Al	PD) for a new o	r recompleted well.						
			1 – Plan De fective May 25,										
I. Operator: <u>SPUR</u>	Operator: <u>SPUR ENERGY PARTNERS LLC</u> OGRID: <u>328947</u> Date: <u>01// 26 / 202</u> 3												
II. Type: 🔀 Original [☐ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA(C 🗆 19.15.27.9.D((6)(b) N	MAC 🗆 Other.							
If Other, please describe	I. Type:												
III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.													
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Produced Water BBL/D								
BIG N TASTY 2 STATE COM 12H	30-015-	4-2-17S-31E	975'FNL 120' FWL	399 BBL/D	482	MCF/D	1196 BBL/D						
BIG N TASTY 2 STATE COM SA 10H	30-015-	4-2-17S-31E	935' FNL 120' FWL	399 BBL/D		2 MCF/D	1196 BBL/D						
BIG N TASTY 2 STATE COM 22H	30-015-	4-2-17S-31E	915' FNL 120' FWL	399 BBL/D	482	MCF/D	1196 BBL/D						
BIG N TASTY 2 STATE COM 52H	30-015-	4-2-17S-31E	955' FNL 120' FWL	307 BBL/D	372	2 MCF/D	1536 BBL/D						
BIG N TASTY 2 STATE COM 71H	30-015-	4-2-17S-31E	9965' FNL 120' FWL	307 BBL/D	372	MCF/D	1536 BBL/D						
V. Central Delivery Point Name: BIG N TASTY 2 STATE COM NORTH TANK BATTERY [See 19.15.27.9(D)(1) NMAC]													
proposed to be recompleted from a single well pad or connected to a central delivery point.													
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flow Back Date	First Production Date						
BIG N TASTY 2 STATE COM 12H	30-015-	10/27/2024	11/06/2024	01/23/2025		02/21/2025	02/27/2025						
BIG N TASTY 2 STATE COM SA 10H	30-015-	11/07/2024	11/15/2024	01/23/2025		02/21/2025	02/27/2025						
BIG N TASTY 2 STATE COM 22H	30-015-	11/16/2024											
BIG N TASTY 2 STATE COM 52H	30-015-	11/25/2024	12/04/2024	01/23/2025	02/27/2025								
BIG N TASTY 2 STATE COM 71H	30-015-	12/05/2024	12/14/2024	01/23/2025		02/21/2025	02/27/2025						

VI. Separation Equipment: 🛛 Attach a complete description of how Operator will size separation equipment to optimize 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 EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

 \Box Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \bigtriangledown 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

 \Box 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. \Box 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. \Box 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;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (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

(b) 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: Sarah Chapman
Printed Name: SARAH CHAPMAN
Title: REGULATORY DIRECTOR
E-mail Address: SCHAPMAN@SPURENERGY.COM
Date: JANUARY 26, 2023
Phone: 832-930-8613
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on anticipated daily production to ensure adequate capacity.

VII. Spur Energy Partners LLC ("Spur") will take the following actions to comply with the regulations listed in 19.15.27.8:

- A. Spur will maximize the recovery of natural gas by minimizing waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Spur will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.
- B. All drilling operations will be equipped with a rig flare at least 100 feet from the nearest surface hole location. Rig flare will be utilized to combust any natural gas that is brought to surface during normal operations. In the case of emergency, flaring volumes will be reported appropriately.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following completion operations, wells will flow to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. If natural gas does not meet gathering pipeline specifications, Spur will flare for 60 days or until natural gas meets the pipeline specifications. Spur will ensure flare is properly sized and is equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.
- D. Natural gas will not be flared with the exception of 19.15.27.8(D)(1-4). If there is no adequate takeaway for the separator gas, wells will be shut-in until that natural gas gathering system is available with exception of emergency or malfunction situations. Volumes will be reported appropriately.
- E. Spur will comply with performance standards pursuant to 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressures to minimize waste. Storage tanks constructed after May 25, 2021 will be equipped with an automatic gauging system that reduces venting of natural gas. Flare stacks installed or replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot. Spur will conduct AVO inspections as described in 19.15.27.8(E)(5)(a) with frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of an emergency or malfunction during drilling and/or completion operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured and reported accordingly. Spur will install equipment to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or VRUs associated with a well or facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production of less than 60,000 cubic feet of natural gas. If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, Spur will estimate the volume of flared or vented natural gas.



that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing equipment.

VIII. For maintenance activities involving production equipment and compression, venting be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production equipment, the associated producing wells will be shut-in to eliminate venting. For maintenance of VRUs, all natural gas normally routed to the VRU will be routed to flare.



Drilling Plan Data Report 08/03/2023 U.S. Department of the Interior BUREAU OF LAND MANAGEMENT APD ID: 10400091665 Submission Date: 04/17/2023 Highlighted data reflects the most **Operator Name: SPUR ENERGY PARTNERS LLC** recent changes Well Name: BIG N TASTY 2 STATE COM Well Number: 71H Show Final Text Well Type: OIL WELL Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical			Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
10239155	QUATERNARY	3991	0	Ö	DOLOMITE, OTHER : Caliche	USEABLE WATER	N
10239156	RUSTLER	3321	670	670	ANHYDRITE, DOLOMITE, SHALE	OTHER : Brackish Water	Ν
10239157	TOP SALT	3136	855	855	ANHYDRITE	OTHER : Salt	Ν
10239158	BASE OF SALT	2179	1812	1840	ANHYDRITE	OTHER : Salt	N
10239159	TANSILL	2113	1878	1904	DOLOMITE, SANDSTONE	NONE	N
10239160	YATES	2007	1984	2013	DOLOMITE, LIMESTONE, SHALE, SILTSTONE	NONE	N
10239161	SEVEN RIVERS	1703	2288	2320	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	Ν
10239162	QUEEN	1091	2900	2958	ANHYDRITE, DOLOMITE, SANDSTONE	NATURAL GAS, OIL	Ν
10239163	GRAYBURG	676	3315	3375	ANHYDRITE	NATURAL GAS, OIL	Ν
10239154	SAN ANDRES	379	3612	3680	DOLOMITE	NATURAL GAS, OIL	Ν
10239164	GLORIETA	-1117	5108	5210	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	Ν
10239165	PADDOCK	-1214	5205	5308	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	Ν
10239166	YESO	-1577	5568	5716	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Number: 71H

Pressure Rating (PSI): 5M

Rating Depth: 6000

Equipment: A 5000-psi 6000' rated BOP stack with annular preventer and blind and pipe rams will be used before drilling the intermediate hole and continuously to TD.

Requesting Variance? YES

Variance request: Spur requests a variance to use a flex line from the BOP to the choke manifold. A typical flex line certificate is attached. Certificate for actual flex line in use will be on site. Flex line will have no external damage. Flex line will be installed as straight as possible to avoid bends. Spur requests a variance to adjust the BOP break testing requirements as follows: BOP break test will be conducted under the following conditions: - After a full BOP test is conducted - When skidding to drill the production section, where the surface casing point is shallower than the 3rd Bone Spring or 10,000 TVD. - When skidding to drill a production section that does not penetrate the 3rd Bone Spring or deeper. If the kill line is broken prior to the skid, then 4 tests will be performed. - The void between the wellhead and the spool (this consists of 2 tests) - The spool between the kill lines and choke manifold (also 2 tests) If the kill line is not broken before the skid, then 2 tests will be performed. - The void between the pipe rams.

Testing Procedure: BOP/BOPE will be tested by an independent service company. Annular will be tested to 70% of its working pressure. Rams will be tested to 250 psi low and 3000 psi high. The system may be upgraded to a higher pressure, but still tested to the above listed working pressure. If the system is upgraded, then all the installed components will be functional and tested. Pipe rams will be operationally checked each 24-jour period. Blind rams will be operationally. Checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other BOP accessories will include a Kelly cock and floor safety valve (inside BOP), choke lines, and choke manifold. A conventional wellhead system will be used. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order 2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days.

Choke Diagram Attachment:

Choke_BOP_Diagram_20230416112224.pdf

BOP Diagram Attachment:

Choke_BOP_Diagram_20230416112232.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	725	0	725	3991	3266	725	J-55	54.5	BUTT	1.12 5	1.2	DRY	1.4	DRY	1.4
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	2450	0	2310	3991	1681	2450	J-55	36	BUTT	1.12 5	1.2	DRY	1.4	DRY	1.4
3	PRODUCTI ON	8.75	7.0	NEW	NON API	N	0	6250	0	5867	3991	-1876	6250	L-80			1.12 5	1.2	DRY	1.4	DRY	1.4
4	PRODUCTI ON	8.75	5.5	NEW	NON API	N	6250	11350	5867	5940	-1876	-1949	5100	L-80	-	OTHER - BK-HT	1.12 5	1.2	DRY	1.4	DRY	1.4

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Number: 71H

Casing Attachments

Casing ID: 1 String Inspection Document:	SURFACE
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Wo	rksheet(s):
Casing_Design_Assumptions_Sh	eet_20230416112254.pdf
Casing ID: 2 String	INTERMEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Wo	rksheet(s):
Casing_Design_Assumptions_Sh	eet_20230416112316.pdf
Casing ID: 3 String	PRODUCTION
Inspection Document:	
Spec Document:	
7in_CasingSpec_BKHT_32_HCL	80_20230416112339.pdf
Tapered String Spec:	
Casing Design Assumptions and Wo	rksheet(s):
Casing_Design_Assumptions_Sh	ueet_20230416112352.pdf

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Number: 71H

Casing Attachments

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

5.5in_CasingSpec_BKHT_20_HCL80_20230416112414.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_Sheet_20230416112424.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	None	None
SURFACE	Tail		0	725	700	1.87	13.2	1309	165	C Premium Plus	0.25 lbs/sk LCM
INTERMEDIATE	Lead		0	725	110	2.4	12	264	100	C Premium Plus	5% Salt + 0.4% Defoamer + 6% Bentonite
INTERMEDIATE	Tail		725	2450	588	1.87	13.2	1100	100	C Premium Plus	1% CaCl + 0.4% Defoamer + 4% Bentonite
PRODUCTION	Lead		0	5250	957	2.42	11.4	2316	100	C Premium Plus	6% Bentonite + 5% Salt + 0.25 lbs/sk LCM + 5% Gypsum + 0.1% Retarder + 0.4% Defoamer
PRODUCTION	Tail		5250	1135 0	1159	1.56	13.2	1808	25	C Premium Plus	0.3% Fluid Loss Additive + 0.1% Dispersant + 0.4% Defoamer + 0.252lbs/sk LCM + 0.1% Retarder

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Number: 71H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Mud products (e. g., barite, bentonite, gypsum, lime, soda ash, caustic soda, nut plug, cedar bark fiber, cotton seed hulls, drilling paper, saltwater clay, CaCl2) will be on site to handle any abnormal hole condition that may be encountered while drilling. High viscosity sweeps will be pumped as needed to clean the hole.

Describe the mud monitoring system utilized: Mud system will be monitored visually and electronically with a Pason PVT system or its equivalent.

Circulating Medium Table

725 2450 OTHER : Brine 10 10.5 Image: Control of the state of the	O Top Depth	Bottom Depth 725	OTHER : Water-	8 Min Weight (Ibs/gal)	So Max Weight (lbs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
2450 1135 OTHER : Brine 10 10.5	725	2450	Based Mud OTHER : Brine	10	10.5							
	2450	1135	OTHER : Brine	10	10.5							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

A mud logger will be used from surface casing point to TD. A gamma ray log will be run from TD to the surface casing point. No other logs are planned at this time.

List of open and cased hole logs run in the well:

MUD LOG/GEOLOGICAL LITHOLOGY LOG, GAMMA RAY LOG,

Coring operation description for the well:

No core or drill stem test is planned.

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Number: 71H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 2750

Anticipated Surface Pressure: 1443

Anticipated Bottom Hole Temperature(F): 128

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

BNT_North_H2S_Plan_20230416112541.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BNT_71H_Directional_Plan_20230416112554.pdf

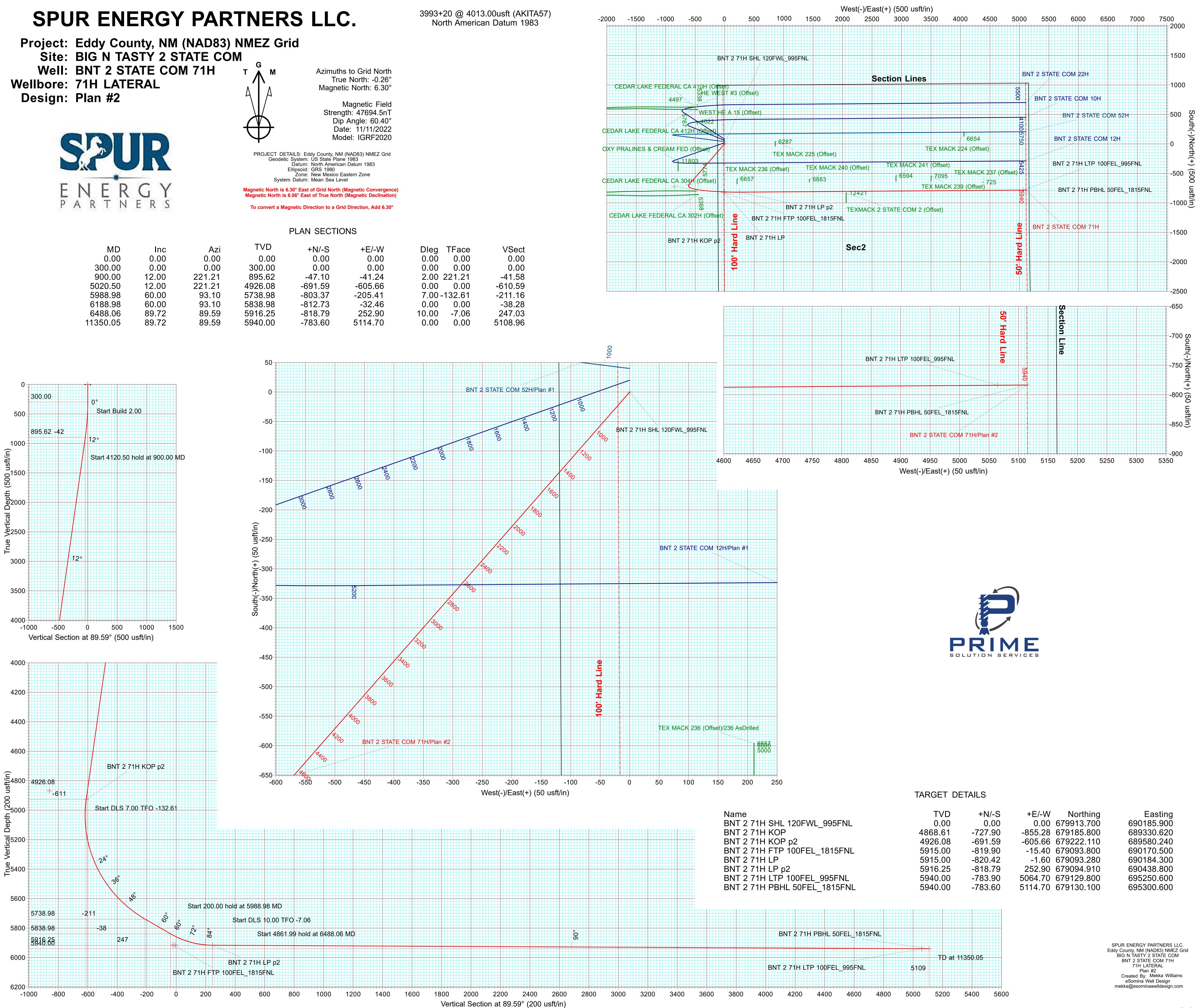
Other proposed operations facets description:

Other proposed operations facets attachment:

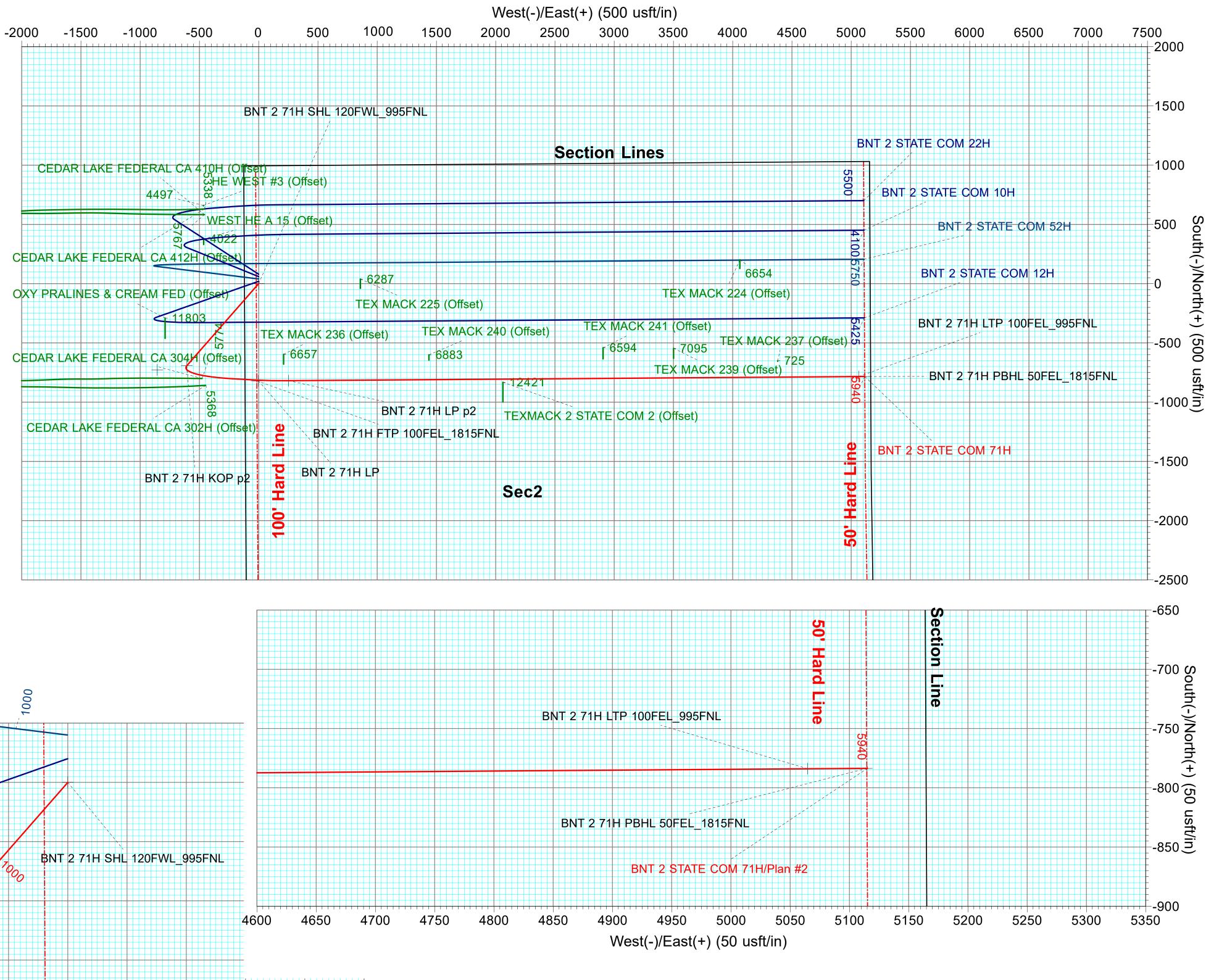
BNT_71H_Drill_Plan_20230416112601.pdf CoFlex_Hose_Cert_20230416112615.pdf BNT_71H_Anticollision_Report_20230416112623.pdf

Other Variance attachment:

Spudder_Rig_Variance_20230416112632.pdf



+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
-41.24	2.00	221.21	-41.58
-605.66	0.00	0.00	-610.59
-205.41	7.00	-132.61	-211.16
-32.46	0.00	0.00	-38.28
252.90	10.00	-7.06	247.03
5114.70	0.00	0.00	5108.96



	20	0		25	50				
Nan BNT		71	н	SF	۱L	120)FV	VL	_9
BNT BNT						p2		_	
BNT						•)FE	E	18

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid BIG N TASTY 2 STATE COM BNT 2 STATE COM 71H

71H LATERAL

Plan: Plan #2

Standard Planning Report

18 December, 2022

Database: Company: Project: Site: Well: Wellbore: Design:	SPUF Eddy BIG N BNT 2	N TASTY 2 STA 2 STATE COM ATERAL	IAD83) NMEZ G	Grid	Local Co-ordinate Reference:Well BNT 2 STATVD Reference:3993+20 @ 40°MD Reference:3993+20 @ 40°North Reference:GridSurvey Calculation Method:Minimum Curva				I3.00usft (AKIT I3.00usft (AKIT		
Project	Eddy (County, NM (NA	AD83) NMEZ G	rid							
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 merican Datum xico Eastern Zo									
Site	BIG N	TASTY 2 STAT	ECOM								
Site Position: From: Position Uncerta	Ma iinty:	•	Northi Eastin 0 usft Slot R	g:		933.700 usft 85.800 usft 13-3/16 "	Latitude: Longitude: Grid Converg	jence:		32.8682199 -103.8485376 0.26 °	
Well	BNT 2	STATE COM 7	1H								
Well Position Position Uncerta	+N/-S +E/-W	0.	10 usft Ea	rthing: sting: ellhead Elevat	ion:	679,913.700 690,185.900	usft Lor	itude: ngitude: ound Level:		32.8681649 -103.8485375 3,993.00 usft	
			-								
Wellbore	71H L	ATERAL									
Magnetics	Mo	odel Name	Sample	e Date	Declina (°)	tion	Dip A ('	Nngle ')		strength 1T)	
		IGRF2020		11/11/22		6.56		60.40	47,6	94.49920433	
Design	Plan #	2									
Audit Notes: Version:			Phase	. F	PROTOTYPE	Tio	On Depth:		0.00		
Vertical Section:		ſ	Depth From (TV		+N/-S	+E	/-W	Dir	ection		
			(usft) 0.00		(usft) 0.00	-	sft) 00	8	(°) 9.59		
Plan Survey Too Depth Fro (usft) 1 0	m Dept (us		12/18/22 • (Wellbore) 2 (71H LATERA	L)	Tool Name MWD+SAG+F OWSG MWD		Remarks				
Plan Sections											
Measured	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00 300.00 900.00 5,020.50	0.00 0.00 12.00 12.00	0.00 0.00 221.21 221.21	0.00 300.00 895.62 4,926.08	0.00 0.00 -47.10 -691.59	0.00 0.00 -41.24 -605.66	0.00 0.00 2.00 0.00	0.00 0.00 2.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 221.21 0.00		
5,988.98 6,188.98 6,488.06 11,350.05	60.00 60.00 89.72 89.72	93.10 93.10 89.59 89.59	5,738.98 5,838.98 5,916.25 5,940.00	-803.37 -812.73 -818.79 -783.60	-205.41 -32.46 252.90 5,114.70	7.00 0.00 10.00 0.00	4.96 0.00 9.94 0.00	-13.23 0.00 -1.18 0.00	-132.61 0.00 -7.06	BNT 2 71H PBHL 50F	
11,000.00	09.12	09.09	5,540.00	-103.00	5,114.70	0.00	0.00	0.00	0.00	DIVIZ / III FORL JUF	

12/18/22 7:41:15PM

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well BNT 2 STATE COM 71H
Company:	SPUR ENERGY PARTNERS LLC.	TVD Reference:	3993+20 @ 4013.00usft (AKITA57)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3993+20 @ 4013.00usft (AKITA57)
Site:	BIG N TASTY 2 STATE COM	North Reference:	Grid
Well:	BNT 2 STATE COM 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	71H LATERAL		
Design:	Plan #2		
-			

Planned Survey

	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	400.00	2.00	221.21	399.98	-1.31	-1.15	-1.16	2.00	2.00	0.00
	400.00	2.00	221.21			-1.15	-1.10	2.00	2.00	0.00
	500.00	4.00	221.21	499.84	-5.25	-4.60	-4.64	2.00	2.00	0.00
	600.00	6.00	221.21	599.45	-11.81	-10.34	-10.42	2.00	2.00	0.00
	700.00	8.00	221.21	698.70	-20.97	-18.37	-18.52	2.00	2.00	0.00
	800.00	10.00	221.21	797.47	-32.74	-28.67	-28.91	2.00	2.00	0.00
	900.00	12.00	221.21	895.62	-47.10	-41.24	-41.58	2.00	2.00	0.00
	1,000.00	12.00	221.21	993.44	-62.74	-54.94	-55.39	0.00	0.00	0.00
	1,100.00	12.00	221.21	1,091.25	-78.38	-68.64	-69.20	0.00	0.00	0.00
	1,200.00	12.00	221.21	1,189.07	-94.02	-82.34	-83.01	0.00	0.00	0.00
	1,300.00	12.00	221.21	1,286.88	-109.66	-96.03	-96.82	0.00	0.00	0.00
	1,400.00	12.00	221.21	1,384.70	-125.30	-109.73	-110.63	0.00	0.00	0.00
	1,500.00	12.00 12.00	221.21 221.21	1,482.51 1,580.33	-140.94	-123.43 -137.13	-124.44 -138.24	0.00 0.00	0.00 0.00	0.00 0.00
	1,600.00 1,700.00	12.00	221.21	1,580.33	-156.58 -172.23	-137.13 -150.83	-138.24 -152.05	0.00	0.00	0.00
	1,800.00	12.00	221.21	1,678.14	-172.23 -187.87	-150.83	-152.05	0.00	0.00	0.00
	1,900.00	12.00	221.21	1,873.77	-107.07 -203.51	-164.52	-105.60	0.00	0.00	0.00
	2,000.00	12.00	221.21	1,971.59	-219.15	-191.92	-193.48	0.00	0.00	0.00
	2,100.00	12.00	221.21	2,069.40	-234.79	-205.62	-207.29	0.00	0.00	0.00
	2,200.00	12.00	221.21	2,167.22	-250.43	-219.31	-221.10	0.00	0.00	0.00
	2,300.00	12.00	221.21	2,265.03	-266.07	-233.01	-234.91	0.00	0.00	0.00
	2,400.00	12.00	221.21	2,362.84	-281.71	-246.71	-248.72	0.00	0.00	0.00
	2,500.00	12.00	221.21	2,460.66	-297.35	-260.41	-262.53	0.00	0.00	0.00
	2,600.00	12.00	221.21	2,558.47	-313.00	-274.10	-276.34	0.00	0.00	0.00
	2,700.00	12.00	221.21	2,656.29	-328.64	-287.80	-290.15	0.00	0.00	0.00
	2,800.00	12.00	221.21	2,754.10	-344.28	-301.50	-303.96	0.00	0.00	0.00
	2,900.00	12.00	221.21	2,851.92	-359.92	-315.20	-317.76	0.00	0.00	0.00
	3,000.00	12.00	221.21	2,949.73	-375.56	-328.89	-331.57	0.00	0.00	0.00
	3,100.00	12.00	221.21	2,949.73 3,047.55	-375.56	-320.09 -342.59	-331.57	0.00	0.00	0.00
	3,200.00	12.00	221.21	3,047.55 3,145.36	-391.20 -406.84	-342.59 -356.29	-345.36 -359.19	0.00	0.00	0.00
	3,300.00	12.00	221.21	3,243.18	-400.84	-369.99	-373.00	0.00	0.00	0.00
	3,400.00	12.00	221.21	3,340.99	-438.13	-383.69	-386.81	0.00	0.00	0.00
	3,500.00	12.00	221.21	3,438.81	-453.77	-397.38	-400.62	0.00	0.00	0.00
	3,600.00	12.00	221.21	3,536.62	-469.41	-411.08	-414.43	0.00	0.00	0.00
	3,700.00	12.00	221.21	3,634.44	-485.05	-424.78	-428.24	0.00	0.00	0.00
	3,800.00	12.00	221.21	3,732.25	-500.69	-438.48	-442.05	0.00	0.00	0.00
	3,900.00	12.00	221.21	3,830.07	-516.33	-452.17	-455.86	0.00	0.00	0.00
	4,000.00	12.00	221.21	3,927.88	-531.97	-465.87	-469.67	0.00	0.00	0.00
	4,100.00	12.00	221.21	4,025.70	-547.61	-479.57	-483.48	0.00	0.00	0.00
	4,200.00	12.00	221.21	4,123.51	-563.26	-493.27	-497.28	0.00	0.00	0.00
	4,300.00	12.00	221.21	4,221.33	-578.90	-506.96	-511.09	0.00	0.00	0.00
	4,400.00	12.00	221.21	4,319.14	-594.54	-520.66	-524.90	0.00	0.00	0.00
	4,500.00	12.00	221.21	4,416.95	-610.18	-534.36	-538.71	0.00	0.00	0.00
	4,600.00	12.00	221.21	4,514.77	-625.82	-548.06	-552.52	0.00	0.00	0.00
	4,700.00	12.00	221.21	4,612.58	-641.46	-561.75	-566.33	0.00	0.00	0.00
	4,800.00	12.00	221.21	4,710.40	-657.10	-575.45	-580.14	0.00	0.00	0.00
	4,900.00	12.00	221.21	4,808.21	-672.74	-589.15	-593.95	0.00	0.00	0.00
	5,000.00	12.00	221.21	4,906.03	-688.38	-602.85	-607.76	0.00	0.00	0.00
	5,020.50	12.00	221.21	4,926.08	-691.59	-605.66	-610.59	0.00	0.00	0.00
	5,050.00	10.71	213.00	4,955.00	-696.20	-609.17	-614.14	7.00	-4.38	-27.82
L	5,100.00	9.18	194.64	5,004.26	-703.96	-612.71	-617.73	7.00	-3.05	-36.73

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COMPASS 5000.15 Build 91

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well BNT 2 STATE COM 71H
Company:	SPUR ENERGY PARTNERS LLC.	TVD Reference:	3993+20 @ 4013.00usft (AKITA57)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3993+20 @ 4013.00usft (AKITA57)
Site:	BIG N TASTY 2 STATE COM	North Reference:	Grid
Well: Wellbore:	BNT 2 STATE COM 71H 71H LATERAL	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,150.00	8.85	172.26	5,053.66	-711.63	-613.20	-618.28	7.00	-0.67	-44.76
5,200.00	9.82	151.40	5,103.01	-719.18	-610.64	-615.77	7.00	1.95	-41.72
5,250.00	11.79	135.85	5,152.13	-726.60	-605.04	-610.22	7.00	3.94	-31.09
5,300.00	14.35	125.22	5,200.84	-733.84	-596.42	-601.65	7.00	5.12	-21.26
5,350.00	17.23	117.92	5,248.95	-740.88	-584.81	-590.09	7.00	5.77	-14.62
5,400.00	20.31	112.70	5,296.29	-747.70	-570.25	-575.59	7.00	6.15	-10.42
5,450.00	23.50	108.83	5,342.68	-754.27	-552.81	-558.19	7.00	6.38	-7.74
5,500.00	26.76	105.85	5,387.94	-760.56	-532.53	-537.96	7.00	6.53	-5.96
5,550.00	30.08	103.48	5,431.91	-766.56	-509.51	-514.99	7.00	6.63	-4.74
5,600.00	33.43	101.54	5,474.42	-772.24	-483.83	-489.34	7.00	6.70	-3.88
5,650.00	36.80	99.92	5,515.32	-777.57	-455.57	-461.13	7.00	6.75	-3.24
5,700.00	40.19	98.53	5,554.45	-782.55	-424.86	-430.45	7.00	6.78	-2.77
5,750.00	43.60	97.33	5,591.66	-787.14	-391.79	-397.42	7.00	6.81	-2.41
5,800.00	47.02	96.27	5,626.82	-791.34	-356.50	-362.16	7.00	6.84	-2.12
5,850.00	50.44	95.32	5,659.80	-795.12	-319.12	-324.80	7.00	6.85	-1.90
5,900.00	53.88	94.46	5,690.47	-798.48	-279.79	-285.49	7.00	6.87	-1.72
5,950.00	57.32	93.67	5,718.71	-801.40	-238.64	-244.37	7.00	6.88	-1.57
5,988.98	60.00	93.10	5,738.98	-803.37	-205.41	-211.16	7.00	6.89	-1.47
6,000.00	60.00	93.10	5,744.50	-803.88	-195.88	-201.63	0.00	0.00	0.00
6,100.00	60.00	93.10	5,794.50	-808.57	-109.41	-115.19	0.00	0.00	0.00
6,188.98	60.00	93.10	5,838.98	-812.73	-32.46	-38.28	0.00	0.00	0.00
6,200.00	61.09	92.95	5,844.41	-813.24	-22.88	-28.70	10.00	9.92	-1.40
6,250.00	66.06	92.28	5,866.65	-815.27	21.84	16.00	10.00	9.93	-1.33
6,300.00	71.03	91.67	5,884.93	-816.87	68.33	62.48	10.00	9.93	-1.23
6,350.00	75.99	91.09	5,899.12	-818.02	116.25	110.39	10.00	9.94	-1.16
6,400.00	80.97	90.53	5,909.10	-818.71	165.22	159.35	10.00	9.94	-1.11
6,450.00	85.94	89.99	5,914.81	-818.93	214.87	209.01	10.00	9.94	-1.08
6,488.06	89.72	89.59	5,916.25	-818.79	252.90	247.03	10.00	9.94	-1.07
6,500.00	89.72	89.59	5,916.31	-818.71	264.84	258.97	0.00	0.00	0.00
6,600.00	89.72	89.59	5,916.79	-817.98	364.84	358.97	0.00	0.00	0.00
6,700.00	89.72	89.59	5,917.28	-817.26	464.83	458.97	0.00	0.00	0.00
6,800.00	89.72	89.59	5,917.77	-816.53	564.83	558.97	0.00	0.00	0.00
6,900.00	89.72	89.59	5,918.26	-815.81	664.82	658.97	0.00	0.00	0.00
7,000.00	89.72	89.59	5,918.75	-815.09	764.82	758.97	0.00	0.00	0.00
7,100.00	89.72	89.59	5,919.24	-814.36	864.82	858.97	0.00	0.00	0.00
7,200.00	89.72	89.59	5,919.73	-813.64	964.81	958.97	0.00	0.00	0.00
7,300.00	89.72	89.59	5,920.21	-812.91	1,064.81	1,058.97	0.00	0.00	0.00
7,400.00	89.72	89.59	5,920.70	-812.19	1,164.81	1,158.96	0.00	0.00	0.00
7,500.00	89.72	89.59	5,921.19	-811.47	1,264.80	1,258.96	0.00	0.00	0.00
7,600.00	89.72	89.59	5,921.68	-810.74	1,364.80	1,358.96	0.00	0.00	0.00
7,700.00	89.72	89.59	5,922.17	-810.02	1,464.79	1,458.96	0.00	0.00	0.00
7,800.00	89.72	89.59	5,922.66	-809.30	1,564.79	1,558.96	0.00	0.00	0.00
7,900.00	89.72	89.59	5,923.15	-808.57	1,664.79	1,658.96	0.00	0.00	0.00
8,000.00	89.72	89.59	5,923.63	-807.85	1,764.78	1,758.96	0.00	0.00	0.00
8,100.00	89.72	89.59	5,924.12	-807.12	1,864.78	1,858.96	0.00	0.00	0.00
8,200.00	89.72	89.59	5,924.61	-806.40	1,964.78	1,958.95	0.00	0.00	0.00
8,300.00	89.72	89.59	5,925.10	-805.68	2,064.77	2,058.95	0.00	0.00	0.00
8,400.00	89.72	89.59	5,925.59	-804.95	2,164.77	2,158.95	0.00	0.00	0.00
8,500.00	89.72	89.59	5,926.08	-804.23	2,264.76	2,258.95	0.00	0.00	0.00
8,600.00	89.72	89.59	5,926.57	-803.51	2,364.76	2,358.95	0.00	0.00	0.00
8,700.00	89.72	89.59	5,927.05	-802.78	2,464.76	2,458.95	0.00	0.00	0.00
8,800.00	89.72	89.59	5,927.54	-802.06	2,564.75	2,558.95	0.00	0.00	0.00
8,900.00	89.72	89.59	5,928.03	-801.33	2,664.75	2,658.95	0.00	0.00	0.00

12/18/22 7:41:15PM

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well BNT 2 STATE COM 71H
Company:	SPUR ENERGY PARTNERS LLC.	TVD Reference:	3993+20 @ 4013.00usft (AKITA57)
Project:	Eddy County, NM (NAD83) NMEZ Grid	MD Reference:	3993+20 @ 4013.00usft (AKITA57)
Site:	BIG N TASTY 2 STATE COM	North Reference:	Grid
Well:	BNT 2 STATE COM 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	71H LATERAL		
Design:	Plan #2		

Planned Survey

I	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	9,000.00	89.72	89.59	5,928.52	-800.61	2,764.74	2,758.94	0.00	0.00	0.00
	9,100.00	89.72	89.59	5,929.01	-799.89	2,864.74	2,858.94	0.00	0.00	0.00
	9,200.00	89.72	89.59	5,929.50	-799.16	2,964.74	2,958.94	0.00	0.00	0.00
	9,300.00	89.72	89.59	5,929.98	-798.44	3,064.73	3,058.94	0.00	0.00	0.00
	9,400.00	89.72	89.59	5,930.47	-797.71	3,164.73	3,158.94	0.00	0.00	0.00
	9,500.00	89.72	89.59	5,930.96	-796.99	3,264.73	3,258.94	0.00	0.00	0.00
	9,600.00	89.72	89.59	5,931.45	-796.27	3,364.72	3,358.94	0.00	0.00	0.00
	9,700.00	89.72	89.59	5,931.94	-795.54	3,464.72	3,458.94	0.00	0.00	0.00
	9,800.00	89.72	89.59	5,932.43	-794.82	3,564.71	3,558.94	0.00	0.00	0.00
	9,900.00	89.72	89.59	5,932.92	-794.10	3,664.71	3,658.93	0.00	0.00	0.00
	10,000.00	89.72	89.59	5,933.40	-793.37	3,764.71	3,758.93	0.00	0.00	0.00
	10,100.00	89.72	89.59	5,933.89	-792.65	3,864.70	3,858.93	0.00	0.00	0.00
	10,200.00	89.72	89.59	5,934.38	-791.92	3,964.70	3,958.93	0.00	0.00	0.00
	10,300.00	89.72	89.59	5,934.87	-791.20	4,064.70	4,058.93	0.00	0.00	0.00
	10,400.00	89.72	89.59	5,935.36	-790.48	4,164.69	4,158.93	0.00	0.00	0.00
	10,500.00	89.72	89.59	5,935.85	-789.75	4,264.69	4,258.93	0.00	0.00	0.00
	10,600.00	89.72	89.59	5,936.34	-789.03	4,364.68	4,358.93	0.00	0.00	0.00
	10,700.00	89.72	89.59	5,936.82	-788.31	4,464.68	4,458.92	0.00	0.00	0.00
	10,800.00	89.72	89.59	5,937.31	-787.58	4,564.68	4,558.92	0.00	0.00	0.00
	10,900.00	89.72	89.59	5,937.80	-786.86	4,664.67	4,658.92	0.00	0.00	0.00
	11,000.00	89.72	89.59	5,938.29	-786.13	4,764.67	4,758.92	0.00	0.00	0.00
	11,100.00	89.72	89.59	5,938.78	-785.41	4,864.66	4,858.92	0.00	0.00	0.00
	11,200.00	89.72	89.59	5,939.27	-784.69	4,964.66	4,958.92	0.00	0.00	0.00
	11,300.00	89.72	89.59	5,939.76	-783.96	5,064.66	5,058.92	0.00	0.00	0.00
	11,350.05	89.72	89.59	5,940.00	-783.60	5,114.70	5,108.96	0.00	0.00	0.00

Database: Company: Project: Site: Well: Wellbore: Design:	PRIME_EDM SPUR ENERG Eddy County, BIG N TASTY BNT 2 STATE 71H LATERAL Plan #2	NM (NAD83 2 STATE CO COM 71H) NMEZ Grid	I	TVD Reference: 3993+20 @			2 STATE COM 71H @ 4013.00usft (AKITA57) @ 4013.00usft (AKITA57) Curvature		
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BNT 2 71H SHL 120FW - plan hits target ce - Point		0.01	0.00	0.00	0.00	679,913.700	690,185.900	32.8681649	-103.8485375	
BNT 2 71H KOP - plan misses targe - Point	0.00 t center by 258	0.01 20usft at 50	4,868.61 04.16usft MI	-727.90 D (4910.09 TV	-855.28 D, -689.04 N,	679,185.800 -603.42 E)	689,330.620	32.8661750	-103.8513339	
BNT 2 71H KOP p2 - plan hits target ce - Point	0.00 Inter	0.01	4,926.08	-691.59	-605.66	679,222.110	689,580.240	32.8662717	-103.8505204	
BNT 2 71H FTP 100FEI - plan misses targe - Point		0.01 70usft at 623	5,915.00 8.39usft MD	-819.90 (5861.83 TVD	-15.40), -814.84 N, 1	679,093.800 11.28 E)	690,170.500	32.8659116	-103.8486000	
BNT 2 71H LP - plan misses targe - Point	0.00 t center by 53.9	0.01 8usft at 625	5,915.00 0.00usft MD	-820.42 (5866.65 TVD	-1.60), -815.27 N, 2	679,093.280 21.84 E)	690,184.300	32.8659100	-103.8485550	
BNT 2 71H LP p2 - plan hits target ce - Point	0.00 enter	0.01	5,916.25	-818.79	252.90	679,094.910	690,438.800	32.8659112	-103.8477261	
BNT 2 71H LTP 100FEL - plan misses targe - Point		0.01 Susft at 1130	5,940.00 0.00usft MD	-783.90 (5939.76 TVD	5,064.70), -783.96 N, 5	679,129.800 5064.66 E)	695,250.600	32.8659453	-103.8320546	
BNT 2 71H PBHL 50FE - plan hits target ce - Point		0.01	5,940.00	-783.60	5,114.70	679,130.100	695,300.600	32.8659455	-103.8318917	

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Pecos District

Application for Permit to Drill

Conditions of Approval

Geology Concerns

Potash	⊠ None	□ Secretary	□ R-111-P
Cave/Karst	□ Medium	🗆 High	□ Critical
H2S	□ None	□ Below 100 PPM	⊠ Above 100 PPM
Other	□ 4 String Area	□ Capitan Reef	□ SWD Well

Note: The geology of the area where the well is being drilled determines the COAs that apply, not the above table.

Additional Engineering Requirements

Surface casing must be set at: 725 feet

Intermediate casing must be set at: 3991 feet

General Requirements

- 1. Changes to the approved APD casing program need prior approval.
- 2. The Bureau of Land Management (BLM) will be notified in advance for a representative to witness:
 - a. Well spudding (minimum of 24 hours notice)
 - b. Setting and/or cementing of all casing strings (minimum of 4 hours notice)
 - c. BOPE tests (minimum of 4 hours notice)

Eddy County 620 East Greene Street, Carlsbad, NM 88220 (575) 361-2822 BLM_NM_CFO_DrillingNotifications@BLM.GOV

Lea County 414 West Taylor, Hobbs, NM 88240 (575) 689-5981

- 3. The initial wellhead installed on the well will remain on the well with spools used as needed.
- 4. 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.

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- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig:
 - i. 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 a Spudder Rig:
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per 43 CFR 3172.6 as soon as 2nd Rig is rigged up on well.
- 5. 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 always be operational during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table or the area immediately above the substructure on which the draw works are located (this does not include the doghouse or stairway area).
- 6. 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.

Pressure Control

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.6 and API STD 53 Sec. 5.3.
- 2. 5M or higher systems require 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.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. 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.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. 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.

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- d. 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.
- e. 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 43 CFR 3172.6(b)(9).
- f. 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).
- g. 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.
- h. The tests shall be done by an independent service company utilizing a test plug, not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 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).
- 4. If the operator has proposed using a 5,000 (5M) Annular on a 10M BOP:
 - a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi.
- 5. 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).

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- 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 43 CFR 3172 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.
- 6. If a variance is approved for break testing the BOPE, the following requirements apply:
 - a. BOPE break testing is only approved for a BOP rated at 5M or less.
 - b. Approval is only for the intermediate hole sections, so long as those sections do not go deeper than the Bone Springs formation.
 - c. The Annular Preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.
 - d. A full BOP test shall be performed every 21 days (at a minimum).
 - e. A full BOP test is required prior to drilling the first intermediate hole section (if applicable). If any subsequent intermediate hole interval is deeper than the first, a full BOP test shall be required (a maximum 200 foot difference in true vertical depth (TVD) is allowed).
 - f. BOPE break testing is not permitted for drilling the production hole section.
 - g. While in transfer, the BOP shall be secured by the hydraulic carrier or cradle.
 - h. If any repairs or replacements of the BOPE is required, the BOPE shall be tested as required by 43 CFR 3172.
 - i. Pressure tests shall be performed on any BOPE components that have been disconnected. A low pressure (250-300 psi) and a high pressure (BOP max pressure rating) test are required.
 - j. If a testing plug is used, pressure shall be maintained for at least 10 minutes. If there is any bleed off in pressure, the test shall be considered to have failed.
 - k. If no testing plug is used, pressure shall be maintained for at least 30 minutes. If there is a decline in pressure of more than 10 percent, the test shall be considered to have failed.
 - 1. The appropriate Bureau of Land Management (BLM) office shall be notified a minimum of 4 hours before testing occurs.
 - m. Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
 - n. If break testing is not used, then a full BOPE test shall be conducted.
- 7. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply:
 - a. The flex line must meet the requirements of API 16C.

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- b. Check condition of flexible line from BOP to choke manifold (replace if exterior is damaged or if line fails test).
- c. Line is to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements.
- d. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating.
- e. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, shall be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

Casing and Cement

- 1. 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.).
- 2. On any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. The 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.
- 3. 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.
- 4. The surface casing shall be set at a minimum of 25 feet into the Rustler Anhydrite and 80 feet 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 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.

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- 5. Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.
- 6. Intermediate casing must be cemented to surface. For medium/high cave/karst, potash, and Capitan Reef, wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- 7. The production cement should tie-back at least 200 feet (500 feet in Secretary Potash, surface in R-111-P potash) into previous casing string. Operator shall provide method of verification.
- 8. Production liner cement should tie-back at least 100 feet into previous casing string. Operator shall provide verification of cement top.
- 9. In WIPP Areas, cement must come to surface on the first three casing strings.
- 10. If cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 11. No pea gravel permitted for remedial cement or fall back remedial cement without prior authorization from a BLM petroleum engineer.
- 12. 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.

13. DV tools:

- a. First stage to DV tool (The DV tool may be cancelled if cement circulates to surface on the first stage):
 - i. Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - i. For intermediate casing, cement to surface.
 - ii. For production casing, cement should tie-back at least 200 feet (500 feet in Secretary Potash, surface in R-111-P potash) into previous casing string. Operator shall provide method of verification.
 - iii. If cement does not circulate, contact the appropriate BLM office.

- 14. Potash Areas:
 - a. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - b. After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met:
 - i. Cement reaches a minimum compressive strength of 500 psi for all cement blends
 - ii. Until cement has been in place at least 24 hours.
 - c. WOC time will be recorded in the driller's log.
 - d. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
 - e. In R111 Potash Areas, if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
 - f. In Secretary Potash Areas, if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 15. Wait on cement (WOC) for Water Basin:
 - a. After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met:
 - i. Cement reaches a minimum compressive strength of 500 psi at the shoe
 - ii. Until cement has been in place at least 8 hours.
 - b. WOC time will be recorded in the driller's log.
- 16. Medium/High/Critical Cave/Karst Areas:
 - a. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - b. In Critical Cave/Karst Areas cement must come to surface on the first three casing strings.
 - c. In Medium and High Cave/Karst Areas, if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 - d. In Critical Cave/Karst Areas, if cement does not circulate to surface on the first three casing strings, the cement on the 4th casing string must come to surface.

Drilling Mud

1. 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.

Waste Material and Fluids

1. 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

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disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

Special Requirements

- 1. Communitization Agreement
 - a. The operator will submit a Communitization Agreement to the Santa Fe Office (301 Dinosaur Trail, Santa Fe, NM 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.
 - b. 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.
 - i. The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
 - ii. 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.
 - c. In addition, the well sign shall include the surface and bottom hole lease numbers.
 - i. When the Communitization Agreement number is known, it shall also be on the sign.
- 2. Unit Wells
 - a. The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers.
 - i. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.
 - b. Commercial Well Determination
 - i. A commercial well determination shall be submitted after production has been established for at least six months (this is not necessary for secondary recovery unit wells).
- 3. Hydrogen Sulfide (H2S)
 - a. If H2S is encountered, provide measured values and formations to the BLM.
 - b. An H2S area must meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items.

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- c. An H2S Drilling Plan shall be activated 500 feet prior to drilling into any formation designated as having H2S.
- d. Hydrogen Sulfide 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 43 CFR 3176 requirements, which includes equipment and personnel/public protection items.
- 4. Capitan Reef
 - a. 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 it is a 4 string well ensure fresh water based mud is used across the Capitan interval):
 - i. 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.
 - ii. 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.
 - iii. The daily drilling report should show mud volume per shift/tour.
 - iv. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval.
 - v. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 5. Salt Water Disposal Wells
 - a. The operator shall supply the BLM with a copy of a mudlog over the permitted disposal interval and estimated in situ water salinity based on open-hole logs.
 - b. If hydrocarbons are encountered while drilling, the operator shall notify the BLM.
 - c. The operator shall provide to the BLM a summary of formation depth picks based on mudlog and geophysical logs along with a copy of the mudlog and open-hole logs from total depth to top of Devonian.
 - d. An NOI sundry with the completion procedure for this well shall be submitted and approved prior to commencing completion work. The procedure will be reviewed to verify that the completion proposal will allow the operator to:
 - i. Properly evaluate the injection zone utilizing open-hole logs, swab testing and/or any other method to confirm that hydrocarbons cannot be produced in paying quantities. This evaluation shall be reviewed by the BLM prior to injection commencing.
 - ii. Restrict the injection fluid to the approved formation.
 - iii. If a step rate test will be run, an NOI sundry shall be submitted to the BLM for approval.

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- e. If off-lease water will be disposed in this well, the operator shall provide proof of right-of-way approval.
- 6. WIPP Requirements
 - a. If the proposed surface well or bottom hole is located within 330 feet of the WIPP Land Withdrawal Area boundary:
 - Daily drilling reports, logs, and deviation survey information are required to be submitted to the Bureau of Land Management Engineering Department and the U.S. Department of Energy (per requirements of the Joint Powers Agreement) until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum the rate of penetration and a clearly marked section showing the deviation for each 500-foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures.
 - ii. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed.
 - iii. Upon completion of the well, the operator shall submit a complete directional survey.
 - iv. Any future entry into the well for purposes of completing additional drilling will require supplemental information.
 - b. Required information shall be emailed to OilGasReports@wipp.ws.
 - i. Attached files must not be greater than 20 MB.
 - ii. Call WIPP Tech Support at 575-234-7422, during the hours of 7:00am to 4:30pm, if there are any issues sending to this address.

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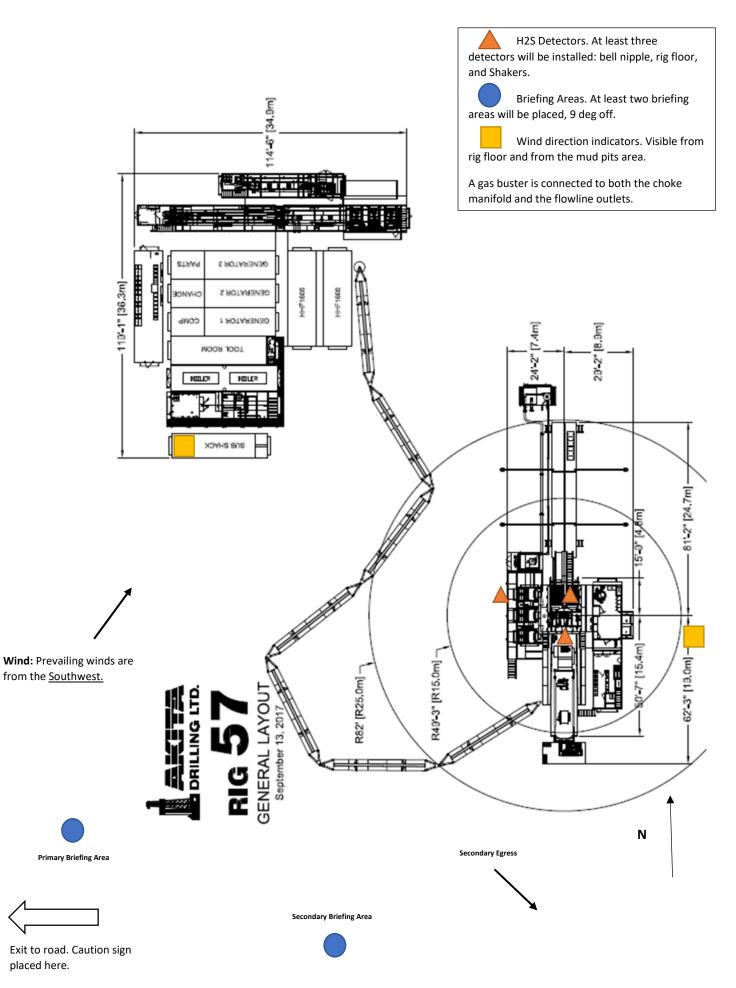


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Big N Tasty 2 State Com North Pad

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the even of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then secondary egress route should be taken.



Spur Energy Partners New Mexico Operations

Hydrogen Sulfide Operation Plan

A. Introduction:

The Safety of all personnel at Spur Energy Partners Facilities is of utmost importance to the company, and therefor management and employees must take responsibility for their safety and for the safety of all employees and others at a facility. If you have any concerns about the safe operations of the facility, contract personnel, or vendors, please contact the Company's Safety Contact, Superintendent, or Production Foreman immediately.

The objective of this contingency plan is to provide an organized plan of action for alerting, responding to and protecting employees, other workers and the public from H2S exposure in the event of a release of a potentially hazardous volume of H2S to the atmosphere. This plan should be activated immediately if any such release occurs. The Superintendent is responsible for initiating and carrying out the plan.

B. Scope:

Prevent the uncontrolled release of H₂S into the atmosphere. Provide proper procedures and equipment to alert and respond to emergencies.

Provide immediate and adequate medical attention should an injury occur.

To provide Company employees working at actual or potential Hydrogen Sulfide (H2S) facilities with a safe procedure to comply with applicable Federal, State and Company requirements.

This document is intended to provide general policy, procedures and expectations surrounding elevated levels of H2S. The intent is to promote sound and safe operations, while seeking effective communication surrounding operational considerations working around H2S.

This procedure applies to all Company employees and contractors working at facilities that have the potential to release 100 ppm or higher concentrations of H2S.

The plan establishes guidelines for all personnel whose work activity may involve exposure to Hydrogen Sulfide Gas (H₂S).

C. Hydrogen Sulfide Gas (H2S) Characteristics:

- 1. H2S is a toxic, poisonous gas that could cause death or injury. And it is also flammable.
- 2. H2S is an irritant and extremely toxic gas that is several times deadlier than carbon monoxide (CO).
- 3. H2S is heavier than air with a specific gravity of 1.1895 @ 600 F. so it will tend to lie in lower areas. Wind movement or air currents can readily disperse H2S since wind currents can easily overcome the heavier weight. On calm days, with no wind, the H2S will tend to accumulate in dangerous concentrations; however, if the H2S is warmer than the surrounding air it may rise.
- 4. H2S is colorless.
- 5. In small concentrations, H2S has the characteristic odor of rotten eggs. It may be detected by smell at a concentration in air of about 2 ppm but may NOT be detected

at high concentrations. DO NOT DEPEND ON THE SENSE OF SMELL TO DETECT H2S! H2S will paralyze the olfactory nerve causing a loss of the sense of smell within 2 – 15 minutes of an exposure in concentrations as low as 100-150 ppm.

- H2S burns with a blue flame and has an auto ignition temperature of 5000 F. H2S forms an explosive mixture in the range of 4.3% to 45% by volume with air. H2S, when ignited, produces Sulfur Dioxide (SO2). SO2 is another toxic gas but less toxic than H2S.
- 7. Physiological Effects
 - 1,000-2,000+ ppm: Loss of consciousness and possible death.
 - 100-1,000 ppm: Serious respiratory, central nervous, and cardiovascular system effects.
 - 150-200 ppm: Olfactory fatigue (sense of smell is significantly impaired).
 - 100 ppm: Immediately Dangerous to Life and Health (IDLH concentration).
 - 5-30 ppm: Moderate irritation of the eyes.
 - 5-10 ppm: Relatively minor metabolic changes in exercising individuals during short-term exposures.
 - Less than 5 ppm: Metabolic changes observed in exercising individuals, but not clinically significant.
 - 5 ppm: Increase in anxiety symptoms (single exposure).
 - 5 ppm: Start of the dose-response curve (short-term exposure).
 - 0.032-0.02 ppm: Olfactory threshold (begin to smell).

D. H₂STraining

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing work at an effected facility:

- 1. The hazards and characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.
- 5. The procedures for operating process equipment.

In addition, supervisory personnel will be trained in the following areas:

- 1. Corrective action and shutdown procedures when a release or leak occurs.
- 2. Notification process

Annual drills will be conducted to utilize the procedures and make improvements as needed. It will also serve as refresher training on the process. Note: All H₂S safety equipment and systems will be installed, tested, and operational when operation commences.

E. Protective equipment controls:

Any facility that has the potential to emit H2S at 100 ppm or higher will be required to install and utilize the below controls:

- 1. Where applicable, area air monitors will be installed and function tested and calibrated no less than monthly and set on a quarterly basis PM schedule.
- 2. Facility operators will use self contained breathing apparatuses (SCBA's) to perform routine operations in areas where H2S may be present.
- 3. Trigger of 100 PPM or more must be communicated and work proceeding the trigger must use the buddy system.
- 4. Visible windsocks must be installed at key locations surrounding the facility.
- 5. H2S warning signs must be placed at the entrance to the facility as well as other key locations.
- 6. Personal H2S Monitor are required to be worn by all personnel on locations.
- 7. Stairs and ladders leading to the top of a tank or vessel containing 300 ppm or greater shall be chained or marked to restrict entry.

F. Emergency Procedures

1. Spill or Release of H₂S gas

If a spill or leak releases H₂S the following action must be initiated and completed:

- a. Internally Employee contacts supervisor and HSE Department and performs "d" below.
- b. Externally Someone identifies a possible H₂S emergency and reports it to Company Management, via the listed phone number on posted facility signs.
- c. The Company dispatches an employee to investigate possible H₂S emergency and will secure situation or initiate emergency call for backup.
- d. If the Radius of Exposure has been breached begin the following:
 - Establish safe command center.
 - Call for additional personnel and delegate the following:
 - i. Notifying public safety agencies (Sheriff, Fire Department, Department of Public Safety, Hwy. Department).
 - ii. Safeguarding the facility and effected area.
 - iii. Blocking roads as needed.
 - iv. Notifying/evacuating public.
 - v. Notifying regulatory agencies.
 - vi. Gathering additional information about release ie., location, flowrate, quantity, etc.
 - vii. Stopping release if safe to do so (use 2 trained persons)
 - viii. Notifying company management.
 - ix. Cleanup/repair facilities.

- e. Facility Standard Operating Procedure
 - Evacuate the area, travel crosswind then proceed upwind.
 - Gather at muster point. Ensure Primary Muster point is upwind
 - Notify managers & appropriate EMS if required.
 - Safely shut down (ESD) facility if the facility hasn't already shut in.
 - Pick up SCBA (should be a 30 minute 1 hour pack, located at Muster point.)
 - Use buddy system for man down scenario with rescuers assigned.
 - 1 person to mask up to operate facility controls as needed.
 - 1 person for rescue if needed.
 - 1 person for calling EMS and company management
 - Investigate area and isolate release of gas if safe to do and ensure closure using 4 gas monitor.
 - If venting gas can't be isolated, return to muster point, and re-evaluate path forward.
 - Give detailed description where/how gas is being released.
 - After isolation verify that area monitors return to 0 and are not in alarm.
 - Resume normal operations, once managers agree the ROOT CAUSE has been addressed and corrected.

G. Contacting Authorities

Company personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the NM Emergency Response Commission must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Spur Energy Partners response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER).

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H. Call List

Spur Energy Partners Emergency Contact List					
Person	Loc	ation	Office Phon	e Cell Phone	
Drilling and Completions Department					
Drilling Manager - Chris Hollis	Houst	on	832-930-8629	713-380-7754	
Completions Manager - Theresa Voss	Houst	on	832-930-8614	832-849-8635	
VP of Operations - Seth Ireland	Houst	on	832-930-8527	940-704-6375	
Senior VP of Operations - John Nabors	Houst	on	832-930-8526	281-904-8811	
Executive VP of Operations - Todd Mucha	Houst	on	832-930-8515	281-795-2286	
HES/Environmental a	nd Re	gulatory	Department		
EHS Manager - Braidy Moulder	Artesia	a	575-616-5400	713-264-2517	
Superintendent - Jerry Mathews	Artesia	a	575-616-5400	575-748-5234	
Asst. Superintendent - Kenny Kidd	Artesia	a	575-616-5400	575-703-5851	
Regulatory Director - Sarah Chapman	Houst	on	832-930-8613	281-642-5503	
Regulate	ory Ag	encies			
Bureau of Land Management		Carlsba	d	575-886-6544	
Bureau of Land Management		Hobbs		575-393-3612	
Bureau of Land Management		Roswell		575-622-5335	
Bureau of Land Management		Santa F	e	505-954-2000	
DOT Judicial Pipelines - Incident Reporting Public Regulation Commission	NM	Santa F		505-827-3549 505-490-2375	
EPA Hotline		Dallas		214-665-6444	
Federal OSHA, Area Office		Lubbock	<	806-472-7681	
National Response Center		Washin	gton, D.C.	800-424-8803	
National Infrastructure Coordinator Center	ational Infrastructure Coordinator Center		gton, D.C.	202-282-2901	
New Mexico Air Quality Bureau		Santa Fe 50		505-827-1494	
New Mexico Oil Conservation Division		-		575-748-1283 575-370-7545After	
New Mexico Oil Conservation Division		Hobbs		575-393-6161	
New Mexico Oil Conservation Division		Santa F	е	505-476-3770	
New Mexico OCD Environmental Bureau		Santa F		505-827-7152 505-476-3470	
New Mexico Environmental Department		Hobbs		575-827-9329	
NM State Emergency Response Center		Santa F	e	505-476-9600	

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Medical Facilities			
Artesia General Hospital	Artesia	575-748-3333	
Covenant Medical Center	Lubbock	806-725-1011	
Covenant Medical Center Lakeside	Lubbock	806-725-6000	
Guadalupe County Hospital	Carlsbad	575-887-6633	
Lea Regional Hospital	Hobbs	575-492-5000	
Medical Center Hospital	Odessa	432-640-4000	
Midland Memorial Hospital	Midland	432-685-1111	
Nor-Lea General Hospital	Lovington	575-396-6611	
Odessa Regional Hospital	Odessa	432-334-8200	
Union County General Hospital	Clayton	575-374-2585	
University Medical Center	Lubbock	806-725-8200	
Law Enforce	ement - Sheriff		
Ector County Sheriff's Department	Odessa	432-335-3050	
Ector County Sheriff's Department	Artesia	575-746-2704	

Ector County Sheriff's Department	Carlsbad	575-887-7551
Lea County Sherrif's Department	Eunice	575-384-2020
Lea County Sherrif's Department	Hobbs	575-393-2515
Lea County Sherrif's Department	Lovington	575-396-3611
Lubbock County Sheriff's Department	Abernathy	806-296-2724
Midland County Sheriff's Department	Midland	432-688-1277
Union County Sheriff's Department	Clayton	575-374-2583
Law Enforcen	nent - Police	
Abernathy Police Department	Abernathy	806-298-2545
Artesia City Police	Artesia	575-746-2704
Carlsbad City Police	Carlsbad	575-885-2111
Clayton City Police	Clayton	575-374-2504
Eunice City Police	Eunice	575-394-2112
Hobbs City Police	Hobbs	575-397-9265 575-393-2677
Jal City Police	Jal	575-395-2501
Lovington City Police	Lovington	575-396-2811

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Midland City Police	Midland	432-685-7113
Odessa City Police	Odessa	432-335-3378
La	w Enforcement - FBI	-
FBI	Albuquerque	505-224-2000
FBI	Midland	432-570-0255
Law E	Enforcement - DPS (911)	
NM State Police	Artesia	575-746-2704
NM State Police	Carlsbad	575-885-3137
NM State Police	Eunice	575-392-5588
NM State Police	Hobbs	575-392-5588
NM State Police	Clayton	575-374-2473
Firefi	ghting and Rescue (911)	
Abernathy	Abernathy	806-298-2022
Amistad/Rosebud	Amistad/Rosebud	575-633-9113
Artesia	Artesia	575-746-5751
Carlsbad	Carlsbad	575-885-3125
Clayton	Clayton	575-374-2435
Eunice	Eunice	575-394-2111
Hobbs	Hobbs	575-397-9308
Jal	Jal	575-395-2221
Lovington	Lovington	575-396-2359
Maljamar	Maljamar	575-676-4100
Midland	Midland	432-685-7346
Nara Visa	Nara Visa	575-461-3300
Odessa	Odessa	432-335-4659
Tucumcari	Tucumcari	911
West Odessa	Odessa	432-381-3033

Ambulance (911)				
Abernathy Ambulance	Abernathy	806-298-2241		
Amistad/Rosebud	Amistad/Rosebud	575-633-9113		
Artesia Ambulance	Artesia	575-746-2701		
Carlsbad Ambulance	Carlsbad	575-885-2111		
Clayton Ambulance	Clayton	575-374-2501		
Eunice Ambulance	Eunice	575-394-3258		
Hobbs Ambulance	Hobbs	575-397-9308		
Jal Ambulance	Jal	575-395-3501		
Lovington Ambulance	Lovington	575-396-2811		
Midland Ambulance	Midland	432-685-7499		
Nara Visa Ambulance	Nara Visa	575-461-3300		
Odessa Ambulance	Odessa	432-335-3378		
Tucumcari Ambulance	Tucumcari	911		
Medical Air Ambulance Service				
AEROCARE - Methodist Hospital	Lubbock	800-627-2376		
Southwest MediVac	Hobbs	800-242-6199		
Odessa Care Star	Odessa	888-624-3571		

I. List of Facilities with the potential for 500ppm or higher H2S exposure.

ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

ALASKA 29 FEE TANK BATTERY **ARABIAN 6 FEE TANK BATTERY** ARCO 26 A STATE OIL BATTERY ARCO B FEDERAL COM NO. 001 **ARKANSAS STATE 23 TANK BATTERY AVALON FEDERAL #001 B&B/ROSS RANCH OIL TANK BATTERY** BC FEDERAL 10 (9-13) TNK BTY BC FEDERAL 1-8 &14 TNK BTY **BC FEDERAL 42 TNK BTY BEE FED OIL BATTERY BEECH 25 FEDERAL #9H BATTERY** BEECH FEDERAL 1 **BEECH FEDERAL 2 BATTERY BERRY A FEDERAL #005 SWB BERRY A FEDERAL PADD BATTERY BIG BOY STATE TB BLUETAIL 8 FEDERAL 2 TANK BATTERY** BONE YARD 11 FEE TANK BATTERY BOOT HILL 25 1H SWB **BOSE IKARD 4 ST COM 18H BATTERY BRANTLEY FEDERAL #001 BR-549 STATE BATTERY BRADLEY 8 FEE #3H-BATTERY BRADLEY 8 FEE BATTERY** BRAGG 10 FEE 1 BATTERY **BRIGHAM H 2 BRIGHAM H FED (NORTH) BATTERY BURCH KEELY 13C TK BTY BURCH KEELY 18A TK BATT BURCH KEELY 19A OIL BATT BURCH KEELY 23A TK BATT BURCH KEELY EAST 18B TANK BAT BURCH KEELY SEC 13A NORTH BTTY BURCH KEELY SEC 13B SOUTH BTTY** BURCH KEELY UNIT CTB BTTY **BURCH KEELY UNIT E BATTERY BURKETT 16 STATE** CADDO FEDERAL BATTERY CADILLAC ST 4 BATTERY CALIFORNIA 29 FEE 1 **CARMEN 3 FEDERAL BATTERY** CARRINGTON 12 ST 3,4,7 BATTERY

CHASER 8 STATE 2 TANK BATTERY CHEYENNE FEDERAL TNK BTY CLYDESDALE 1 FEE #1H BAT **CLYDESDALE 1 FEE 6H - BATTERY** COAL TRAIN FEDERAL COM #1 COFFIN STATE #1 COLLIER 22 STATE COM #43H COLLIER STATE OIL BATTERY CONOCO 8 STATE 4 TB CONTINENTAL A STATE TNK BTY CONTINENTAL B YESO TANK BTY CONTINENTAL STATE 15A TNK BTY CRYPT 30 STATE #1H DAGGER DRAW FED/FOSTER FED TANK BATTERY **DARNER 9 STATE 1 TANK BATTERY** DARNER 9 STATE 2 **DARTER 9 STATE 8 TANK BATTERY DARNER 9 STATE CTB** DEXTER FEDERAL PAD TNK BTY **DODD 10A OIL BATTERY** DODD 10B TK BTTY DODD FED #14C TK BATT **DODD FED 11A BATTERY** DODD FED UNIT 980H BATTERY **DODD FEDERAL 14A-TB** DODD FEDERAL UNIT 15A BTTY DODD FEDERAL UNIT NORTH BTTY DODD FEDERAL UNIT SOUTH BTTY DOGWOOD FEDERAL TNK BTY DORAMI 33 FEDERAL COM 2H.4H.9H TANK BATTERY **EBONY STATE TB** EDWARD STATE TNK BTY ELECTRA FEDERAL 33 (NORTH) BATTERY ELECTRA FEDERAL 5 (SWEET) TNK BTY ELECTRA FEDERAL SOUR TNK BTY **EMPIRE SOUTH DEEP UNIT 21** FALABELLA 31 FEE #1H TK BATT FALABELLA 31 FEE 8H TK BTY FAT TIRE 12 COM FEDERAL CTB FEDERAL BA COM NO. 001 FEDERAL BB NO. 001 FLAT HEAD FED COM 6H TANK BATTERY FLAT HEAD FED COM 27H TANK BATTERY

ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

FIR FEDERAL TNK BTY FIRECRACKER STATE TB FLEMMING STATE OIL BATTERY FOLK FEDERAL B TNK BTY FOLK FEDERAL TNK BTY FOLK STATE TANK BATTERY FORAN STATE OIL BATTERY GC FEDERAL 11 TNK BTY GC FEDERAL 27 TNK BTY GC FEDERAL TNK BTY GILLESPIE STATE OIL BATTERY **GISSLER FEDERAL 13H TANK BATT** GJ WEST COOP SOUTH TB GJ WEST COOP UNIT 092 BTY GJ WEST COOP UNIT 191 BTY GJ WEST COOP UNIT 210 BTY GJ WEST COOP UNIT CENTRAL GJ WEST COOP UNIT N TNK BTY GOLD STAR TNK BTY **GOODMAN 22 TANK BATTERY** GRAVE DIGGER FEDERAL COM TANK BATTERY **GRAVE DIGGER ST COM #3H TANK BATTERY GRAVE DIGGER STATE COM #8H SWB** HALBERD 27 ST 3H BATTERY HANOVER STATE #3 (YESO) HARPER STATE TNK BTY HARVARD FEDERAL TNK BTY HATFIELD B TB HEARSE 36 ST COM TANK BATTERY HOBGOBLIN 7 FED COM 4H TK BAT HOLDER CB 11 TNK BTY HOLDER CB FEDERAL 6&7 TNK BTY HOLIDAY HOUMA STATE TNK BTY HT 18 FED 01.05.04 TANK BATTERY HT 18 FEDERAL 8 HUBER 10.11.12 FEDERAL OIL TANK BATTERY HUBER 3 FEDERAL OIL TANK BATTERY HUBER 5 FEDERAL OIL TANK BATTERY HYDRUS 10 FED 03.07.08.11 TANK BATTERY HYDRUS 10 FED 04.05 TANK BATTERY HYDRUS 10 FED 06.09.10.12 TANK BATTERY IMPERIAL STATE TNK BTY

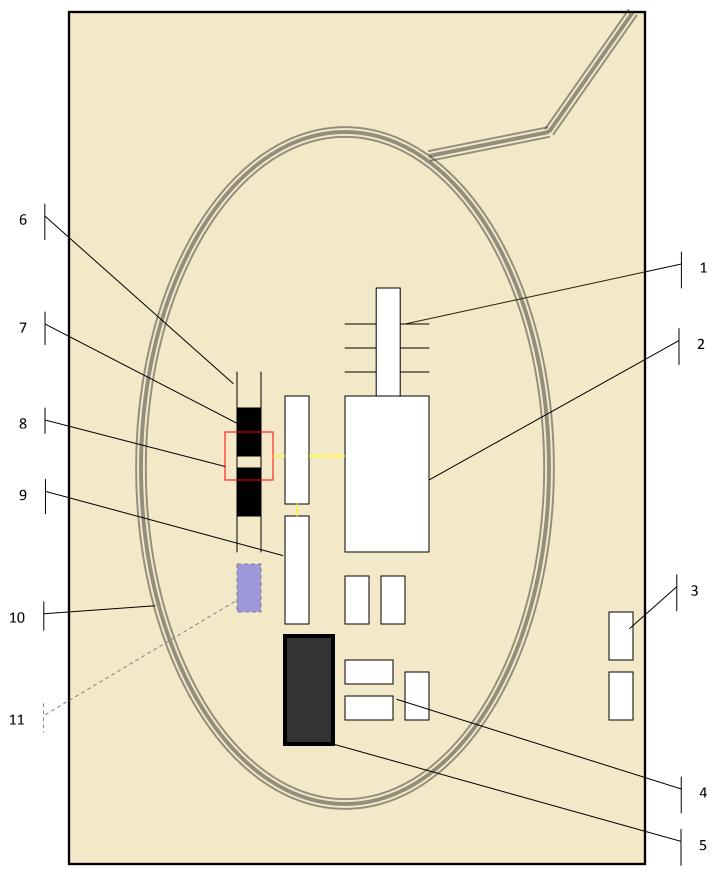
IVAR THE BONELESS FED 11H - BATTERY JC FEDERAL 13 TNK BTY JC FEDERAL 2 (SOUR) TNK BTY JC FEDERAL 27 TNK BTY JENKINS B FEDERAL TNK BTY **JG STATE 16 1 TANK BATTERY** JG STATE 16 7 TANK BATTERY JON BOB 1 JUNIPER STATE TNK BTY **KIOWA OIL BATTERY KOOL AID STATE** LAKEWOOD NORTH TANK BATTERY LAKEWOOD SOUTH TANK BATTERY LARA MICHELLE STATE OIL BTTY LEAKER CC STATE TB LEE 3 FEE 6H - TK BATT LIVE OAK TANK BATTERY MALCO 23 FEDERAL COM #13H MAPLE STATE MARACAS 22 STATE TANK BATTERY MARY FEDERAL OIL BATTERY MAYARO 22 STATE TANK BATTERY MC FEDERAL 14 TANK BATTERY MC FEDERAL 6 DEVONIAN MC FEDERAL PADDOCK TNK BTY MC SOUTHEAST BATTERY MC STATE OIL BATTERY MCCOY STATE TB MCINTYRE A EAST TANK BATTERY MCINTYRE B 10 MCINTYRE B 4 MCINTYRE B TNK BTY MCINTYRE DK 15 TNK BTY MCINTYRE DK FEDERAL 28H SWB **MEADOWHAWK 5 FEDERAL 3** MELROSE FEDERAL TNK BTY **MERAK 7 FEDERAL 8 TANK BATTERY** MESILLA STATE 3 & 5 TNK BTY MESILLA STATE TNK BTY MESQUITE STATE TANK BATTERY MIMOSA STATE TNK BTY MIRANDA FEDERAL B TNK BTY MIRANDA FEDERAL TB

ATTACHMENT 1: SPUR FACILITIES WITH ROE REVIEW

MOE FEDERAL OIL BATTERY MOHAWK FEDERAL TNK BTY **MONCRIEF 3 OIL BATTERY** MOORE STATE OIL BATTERY MORRIS BOYD 26 FEE COM 1H MORRIS BOYD TANK BATTERY **MORRIS E & F TANK BATTERY** MUSKEGON SOUTH STATE OIL BATTERY NAVAHO FEDERAL TNK BTY NELSON 13.23. TNK BATT **NEWCASTLE 6 FED COM - TANK BATTERY** NIRVANA TANK BATTERY NOOSE FED 10 TANK BATTERY NOOSE FED 5 TANK BATTERY **OKLAHOMA 32 TANK BATTERY** OSAGE BOYD 15 FED 09.12.13.14 TANK BATTERY OSAGE BOYD YESO TANK BATTERY PAINT 32 FEE OIL BATTERY PAN CANADIAN A2-B3 TANK BATTERY PASSION 1 FED PDK 5H TK BATT PATTON 5 FEE 2H OIL BATTERY PATTON 5 FEE 8H OIL BATTERY PAWNEE STATE TNK BTY PEACEMAKER 25 FEDERAL TANK BATTERY PERE MARQUETTE 18 FEDERAL 1 TANK BATTERY PILUM 15 FEE 2H BATTERY PINTO 36 STATE COM 1H TNK BTY PINTO 36 STATE COM 4H TNK BTY PINTO 36 STATE TB POLARIS B 5-10 TANK BTTY **POSEIDON 3 FEDERAL 4 TANK BATTERY** POSEIDON 3 FEDERAL 05.07.17.18 TANK BATTERY PUCKETT 13 FEDERAL COM 35H PUCKETT 13 FEDERAL TB **RAGNAR FED COM 25H - BATTERY RANDALL FED 3 BATTERY RED LAKE 32 TANK BATTERY** REDBUD FEDERAL TNK BTY **RINCON STATE TANK BATTERY RJ UNIT NORTH TANK BATTERY RJ UNIT SOUTH TANK BATTERY RONCO FEDERAL #1** ROSE 02.03.04.05.06 TANK BATTERY

ROSE SOUTH TANK BATTERY ROSS RANCH 09.13.14 BATTERY SAM ADAMS 12 FED 4H UBB TK BATT SANDY CROSSING 32 STATE COM 1 SCHLEY FEDERAL TNK BTY SHAWNEE FEDERAL TNK BTY SHELBY 23 BATTERY SHERMAN 4 FEE 4H BATTERY SHERMAN 4 FEE 6H BATTERY SHORTY 2 STATE COM TANK BATTERY SINCLAIR PARKE (PADDOCK) TNK BTY **SKELLY 605 BATTERY SKELLY 942 BATTERY** SKELLY 968 BATTERY **SKELLY 973 BATTERY SKELLY 989 BATTERY SKELLY UNIT 907 CTB BATTERY SKELLY UNIT 940 BATTERY** SOUTH BOYD FED COM OIL TANK BATTERY SOUTH EMPIRE STATE COM 1 SPIKETAIL 5 STATE 2 TANK BATTERY SPRUCE FEDERAL TNK BTY STATE B GAS COM NO. 001 STATE S-19 YESO (SOUR) TNK BTY STONEWALL 9 FEE #1H TBAT **STONEWALL 9 FEE 8H BATTERY** SUBMARINE 10 FED COM 2H OIL BAT TAYLOR D TANK BATTEY TENNECO STATE TNK BTY TEX MACK FED TEXACO BE TNK BTY **TEXAS 32 FEE TANK BATTERY** TEXMACK 36 STATE COM #1 TH STATE #1 THO STATE OIL BATTRY **THORNTAIL 31 FEDERAL 1** THUNDER ROAD FEDERAL OIL BTTY **TUMAK FED 3 BAT VEGA 9 FED TANK BATTERY** VT 36 STATE #1H W D MCINTYRE C 10 WAUKEE 36 STATE COME CTB WD MCINTYRE C 8-9 TNK BTY

WD MCINTYRE E TNK BTY WELCH A 28 10.20.50 CTB WESTERN FEDERAL TNK BTY WHITE OAK STATE B TB WHITE OAK STATE TNK BTY WHITE STAR FEDERAL TNK BTY WICHITA STATE TNK BTY WILLOW STATE TNK BTY YALE B OIL BATTERY YALE STATE TANK BTY YUCCA STATE TNK BTY



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



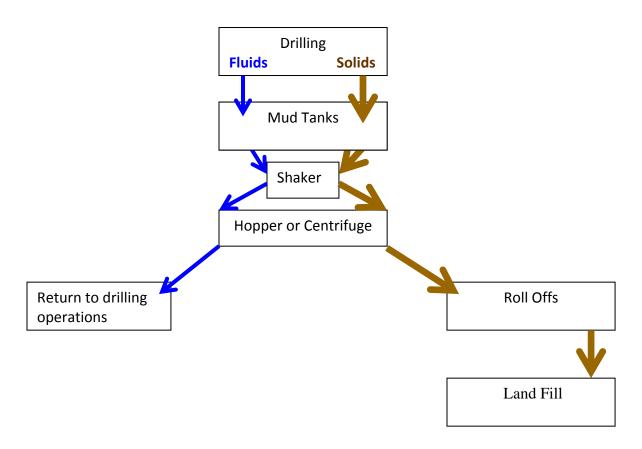


Above: Centrifugal Closed Loop System



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





Released to Imaging: 8/3/2023 5:25:59 PM

Field Service

Photos Courtesy of Gandy Corporation Oil

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

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

District III

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

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

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

CONDITIONS

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Action 247838

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	247838
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

SONDITIONS		
Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	8/3/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/3/2023
ward.rikala	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	8/3/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	8/3/2023
ward.rikala	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	8/3/2023