Form 3160-3 (June 2015)	4				OMI	M APPRO B No. 1004- s: January 3	0137	
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA	NTERI				5. Lease Serial NMLC029426A			
APPLICATION FOR PERMIT TO D	RILL (OR F	REENTER		6. If Indian, Allotee or Tribe Name			
la. Type of work:	EENTER	2			7. If Unit or CA	Agreement,	Name and No.	
	ther	F			8. Lease Name a	and Well No		
1c. Type of Completion: Hydraulic Fracturing	ngle Zon	ne	Multiple Zone		BIG N TASTY	2 STATE C	:OM	
					52H			
2. Name of Operator SPUR ENERGY PARTNERS LLC					9. API Well No.	30-015	-54043	
3a. Address 9655 KATY FREEWAY, SUITE 500, Houston, TX 77024	3b. Pho (832) 9		5. (include area code 548	e)	10. Field and Po FREN/GLORIE	, I	ratory	
4. Location of Well (Report location clearly and in accordance w	vith any	State 1	requirements.*)				d Survey or Area	
At surface LOT 4 / 955 FNL / 120 FWL / LAT 32.86827					SEC 2/T17S/R	31E/NMP		
At proposed prod. zone LOT 1 / 825 FNL / 50 FEL / LAT		6659	/ LONG -103.8318	936			12.0	
14. Distance in miles and direction from nearest town or post offic 5 miles	ce*				12. County or Pa EDDY	arish	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No	of acı	res in lease	17. Spacin 319.6	ng Unit dedicated	to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20 feet	19. Pro 5750 fe	-	l Depth 11394 feet		BIA Bond No. in IB001783	file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3993 feet	22. Apj 09/01/2	-	nate date work will	start*	23. Estimated du 60 days	uration		
	24. A	Attacl	nments		1			
The following, completed in accordance with the requirements of (as applicable)	Onshore	e Oil a	and Gas Order No. 1	, and the H	Iydraulic Fracturi	ng rule per 4	3 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	oy an existing	g bond on file (see	
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office)		, the	 Operator certific Such other site sp BLM. 		mation and/or plan	ns as may be	requested by the	
25. Signature (Electronic Submission)			(Printed/Typed) WOOD / Ph: (83)	2) 930-85	48	Date 04/17/	2023	
Title President								
Approved by (Signature) (Electronic Submission)			(Printed/Typed) LAYTON / Ph: (57	75) 234-59	959	Date 08/02/	2023	
Title Assistant Field Manager Lands & Minerals		Office 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 l	egal o	r equitable title to th	ose rights	in the subject leas	se which wo	uld 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 depa	rtment or agency	



*(Instructions on page 2)

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(Continued on page 2)

1625 N. French Dr., Hobbs, NM 88240

1000 Rio Brazos Road, Aztec, NM 87410

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

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

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

District 1

District II

District III

Form C-102

District Office

Revised August 1, 2011

Submit one copy to appropriate

AMENDED REPORT District IV 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 FREN; GLORIETA-YESO 30-015-54043 26770 6 Well Number 4Property Code 5 Property Name BIG N TASTY 2 STATE COM 52H 334578 7 OGRID NO. 8 Operator Name 9Elevation SPUR ENERGY PARTNERS LLC. 3993' 328947 ¹⁰ Surface Location UL or lot no. Lot Idn Feet from the North/South line Feet From the East/West line Section Township Range County 2 17S 31E 955 NORTH 120 WEST EDDY 4 11 Bottom Hole Location If Different From Surface UL or lot no. Section Range Lot Idn Feet from the North/South line Feet from the East/West line Township County 2 17S 825 NORTH 50 EAST EDDY 1 31E 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No 319.6

State of New Mexico

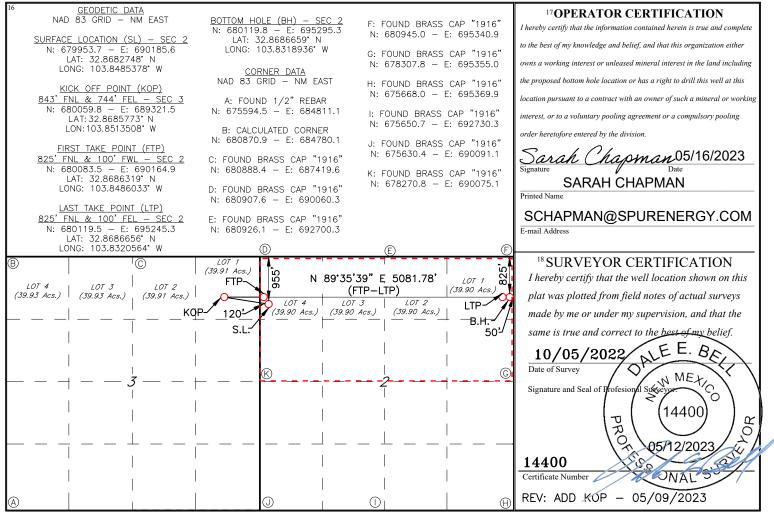
OIL CONSERVATION DIVISION

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.



Released to Imaging: 8/4/2023 8:26:55 AM

Job No.: LS22040381R3

	E	State nergy, Minerals a	e of New Mex nd Natural Reso		ent		nit Electronically E-permitting
		1220 S	nservation Div outh St. Franc ta Fe, NM 875	eis Dr.			
	Ν	ATURAL GA	AS MANAG	GEMENT PI	LAN		
This Natural Gas Manag	gement Plan m	ust be submitted wi	th each Applicati	on for Permit to I	Drill (APD) f	for a new o	r recompleted well.
			1 – Plan De fective May 25,				
I. Operator: <u>SPUR</u>	ENERGY PA	RTNERS LLC	OGRID:	328947	D	ate: <u>01/</u> /	26 / 2023
II. Type: 💢 Original [☐ Amendment	due to \Box 19.15.27.	9.D(6)(a) NMAC	C 🗆 19.15.27.9.D(6)(b) NMA(C□Other.	
If Other, please describe	2:						
	C 11 · · ·	c c 1	1.	1 11 (6	11	1, 1, 1,	
					wells propos	ed to be dri	illed or proposed to
					wells propose Anticipat Gas MCF	ed	Anticipated Produced Water BBL/D
be recompleted from a s	single well pad	or connected to a c	entral delivery po	oint. Anticipated	Anticipat	ed	Anticipated Produced Water
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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.

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: Title: Conditions of Approval:	Signature: Sarah Chapman
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: Italian and a standalone form) Approval Date: Italian and a standalone form)	Printed Name
Date: JANUARY 26, 2023 Phone: 832-930-8613 OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) Approved By: Title: Approval Date: Colspan="2">Colspan="2"Colsp	Title: REGULATORY DIRECTOR
Phone: 832-930-8613 OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) Approved By: Title: Approval Date:	E-mail Address: SCHAPMAN@SPURENERGY.COM
832-930-8613 OIL CONSERVATION DIVISION (ONLY applicable when submitted as a standalone form) Approved By: Title: Approval Date:	Date: JANUARY 26, 2023
(Only applicable when submitted as a standalone form) Approved By: Title: Approval Date:	
Approved By: Title: Approval Date:	OIL CONSERVATION DIVISION
Title: Approval Date:	(Only applicable when submitted as a standalone form)
Approval Date:	
	Approved By:
Conditions of Approval:	
	Title:
	Title: Approval Date:
	Title: Approval Date:



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.



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400091664

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Type: OIL WELL

Well Number: 52H Well Work Type: Drill

Submission Date: 04/17/2023

Highlighted data reflects the most recent changes

08/03/2023

Drilling Plan Data Report

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical	Measured		Mineral Resources	Producina	
ID	Formation Name	Elevation		Depth	Lithologies		Formatio	
10239014	QUATERNARY	3993	0	0	DOLOMITE, OTHER : Caliche	USEABLE WATER	N	
10239015	RUSTLER	3323	670	670	ANHYDRITE, DOLOMITE, SHALE	OTHER : Brackish Water	N	
10239016	TOP SALT	3138	855	855	ANHYDRITE	OTHER : Salt	N	
10239017	BASE OF SALT	2181	1812	1835	ANHYDRITE	OTHER : Salt	N	
10239018	TANSILL	2115	1878	1903	DOLOMITE, SANDSTONE	NONE	N	
10239019	YATES	2009	1984	2010	DOLOMITE, LIMESTONE, SHALE, SILTSTONE	NONE	N	
10239020	SEVEN RIVERS	1705	2288	2320	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	N	
10239021	QUEEN	1093	2900	2950	ANHYDRITE, DOLOMITE, SANDSTONE	NATURAL GAS, OIL	N	
10239022	GRAYBURG	678	3315	3380	ANHYDRITE	NATURAL GAS, OIL	N	
10239013	SAN ANDRES	381	3612	3680	DOLOMITE	NATURAL GAS, OIL	N	
10239023	GLORIETA	-1115	5108	5220	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N	
10239024	PADDOCK	-1212	5205	5320	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	N	
10239025	YESO	-1575	5568	5860	DOLOMITE, LIMESTONE	NATURAL GAS, OIL	Y	

Section 2 - Blowout Prevention

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

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 well head and 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_20230416092721.pdf

BOP Diagram Attachment:

Choke_BOP_Diagram_20230416092742.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	3993	3268	725	J-55	54.5	-	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	2410	3991	1583	2450	J-55	36	-	1.12 5	1.2	DRY	1.4	DRY	1.4
3	PRODUCTI ON	8.75	7.0	NEW	NON API	N	0	6000	0	5638	3991	-1645	6000	L-80		-	1.12 5	1.2	DRY	1.4	DRY	1.4
4	PRODUCTI ON	8.75	5.5	NEW	NON API	N	6000	11394	5638	5750	-1645	-1757	5394	L-80	-		1.12 5	1.2	DRY	1.4	DRY	1.4

Well Number: 52H

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Number: 52H

Casing Attachments

Casing ID: 1 String SURFACE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_Design_Assumptions_Sheet_20230416092856.pdf
Casing ID: 2 String INTERMEDIATE
Inspection Document:
Spec Document:
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_Design_Assumptions_Sheet_20230416092916.pdf
Casing ID: 3 String PRODUCTION
Casing ID: 3 String PRODUCTION Inspection Document:
inspection bocument.
Spec Document:
7in_CasingSpec_BKHT_32_HCL80_20230416092943.pdf
Tapered String Spec:
Casing Design Assumptions and Worksheet(s):
Casing_Design_Assumptions_Sheet_20230416093001.pdf

Operator Name: SPUR ENERGY PARTNERS LLC

Well Name: BIG N TASTY 2 STATE COM

Well Number: 52H

Casing Attachments

Casing ID: 4 String PRODUCTION

Inspection Document:

Spec Document:

5.5in_CasingSpec_BKHT_20_HCL80_20230416093024.pdf

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_Sheet_20230416093037.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	5000	926	2.42	11.4	2241	100	C Premium Plus	6% Bentonite + 5% Salt + 0.25 lbs/sk LCM + 5% Gypsum + 0.1% Retarder + 0.4% Defoamer
PRODUCTION	Tail		5000	1139 4	1218	1.56	13.2	1900	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: 52H

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

o Top Depth	Bottom Depth	edk L pnW OTHER : Water-	S Min Weight (lbs/gal)	& Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
		Based Mud									
725	2450	OTHER : Brine	10	10.5							
2450	1139 4	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: 52H

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Section 7 - Pressure

Anticipated Bottom Hole Pressure: 2662

Anticipated Surface Pressure: 1397

Anticipated Bottom Hole Temperature(F): 126

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_20230416093243.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BNT_52H_Directional_Plan_20230416093302.pdf

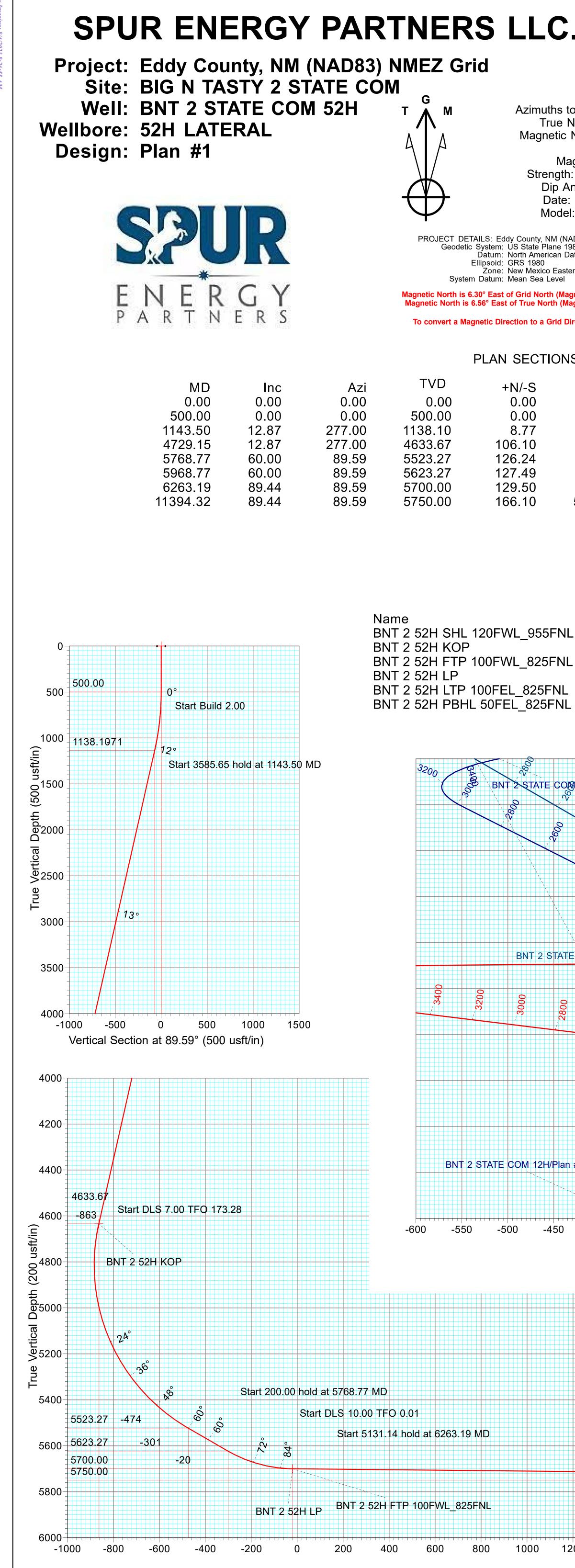
Other proposed operations facets description:

Other proposed operations facets attachment:

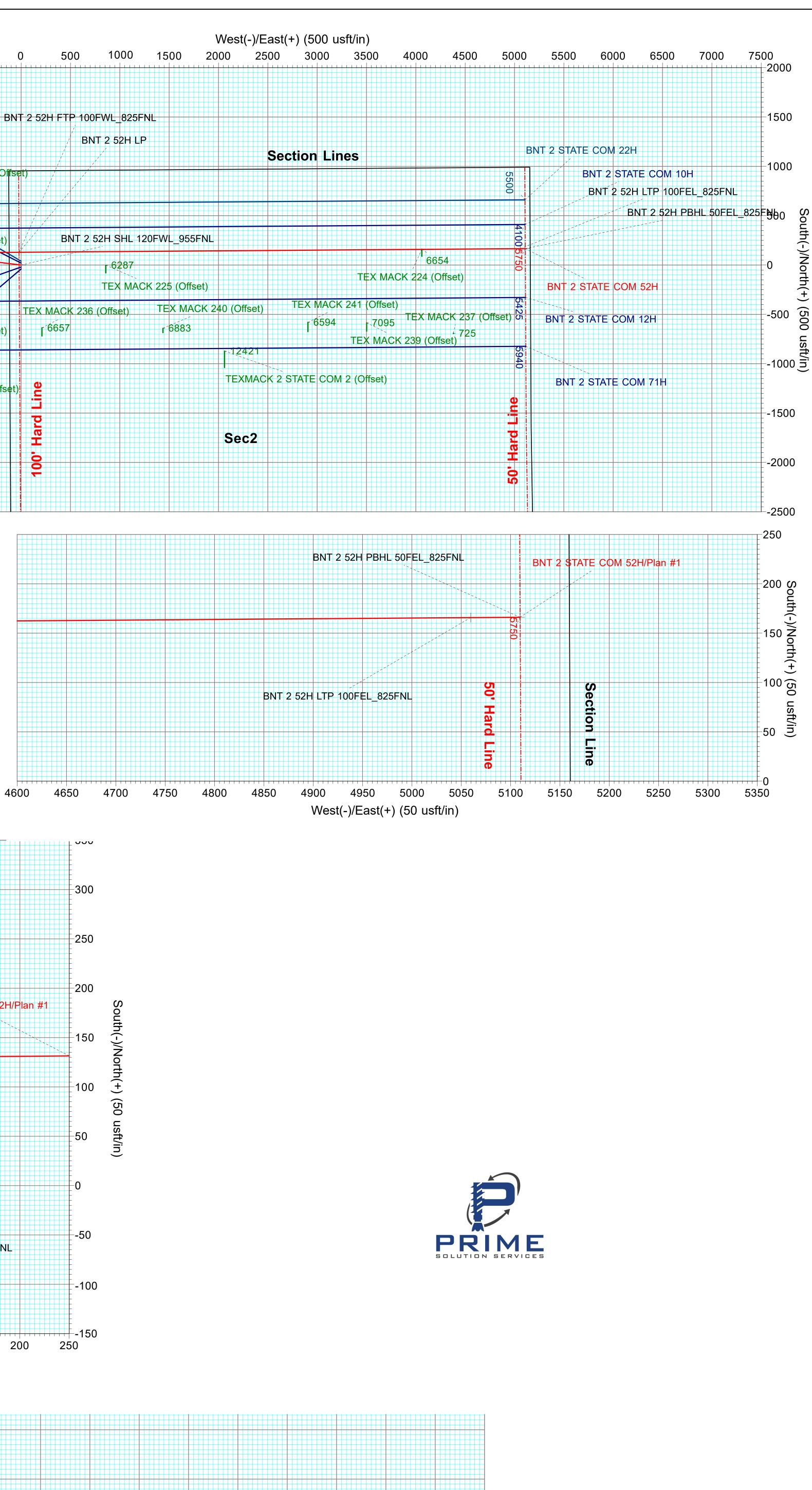
BNT_52H_Drill_Plan_20230416093324.pdf CoFlex_Hose_Cert_20230416093404.pdf BNT_52H_Anticollision_Report_20230416093418.pdf

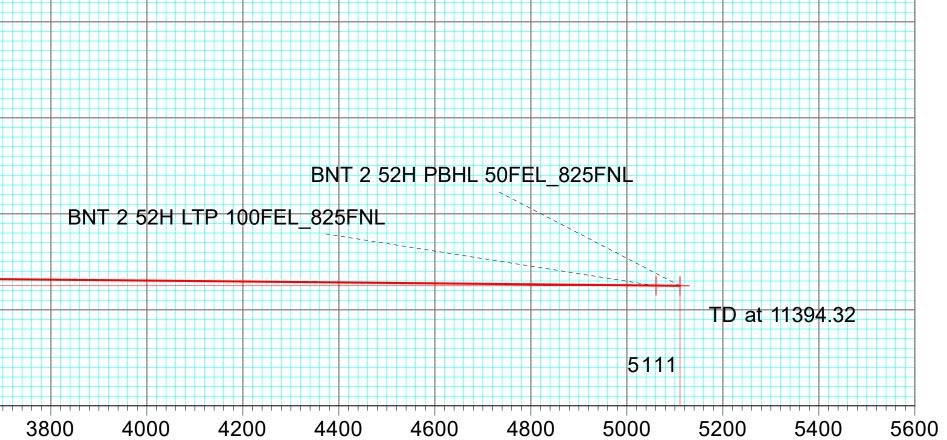
Other Variance attachment:

Spudder_Rig_Variance_20230416093430.pdf



	3993+20 @ 4013.0 North American	· · ·	2000 -1500 -1000 -500
	North American	Dalum 1905	
s to Grid North e North: -0.26° ic North: 6.30°			CEDAR LAKE FEDERAL CA410H (Off
Magnetic Field th: 47694.6nT Angle: 60.40° te: 11/11/2022 del: IGRF2020			CEDAR LAKE FEDERAL CA 412H (Offset)
(NAD83) NMEZ Grid e 1983 n Datum 1983 astern Zone el			BNT 2 52H KOP
Magnetic Convergence) (Magnetic Declination)			CEDAR LAKE FEDERAL CA 804H (Offset)
d Direction, Add 6.30°			CEDAR LAKE FEDERAL CA 302H (Offse
+E/-W 0.00	Dleg TFace 0.00 0.00	VSect 0.00	
0.00 -71.43	$\begin{array}{ccc} 0.00 & 0.00 \\ 2.00 & 277.00 \end{array}$	0.00 -71.37	
-864.15 -475.15 -301.95	0.00 0.00 7.00 173.28 0.00 0.00	-863.37 -474.24 -301.03	
-21.06 5109.70	10.00 0.01 0.00 0.00	-20.14 5110.76	
	TARGET DETAILS		
NL	TVD +N/ 0.00 0. 4633.67 106.	00 0.00 679953.700	690185.600
NL	5700.00129.5700.00129.5750.00165.	80-20.70680083.50050-21.06680083.200	690164.900 690164.540
NL	5750.00 166.		
O& 10H/Plan #1			
2200 2200		e	
200 23	800 < 2000 800		
	1809 7800		BNT 2 STATE COM 52H
ATE COM 22H/Plan #1			
0			BNT 2 52H LP
280	2200	600	BNT 2 52H FTP 100FWL_825FNL
		1400 1200	
		7200	BNT 2 52H SHL 120FWL_955FNL
an #1	1000	11A00 7000	BNT 2 STATE COM 71H/Plan #1
0 -400 6-350	-300 -250 -200	0 -150 -100 -50	0 50 100 150
	West(-)/Ea	ıst(+) (50 usft/in)	
		ů ů ů ů ů ů ů ů ů ů ů ů ů ů	
1200 1400 160		2200 2400 2600 2800 at 89.59° (200 usft/in)	3000 3200 3400 3600





SPUR ENERGY PARTNERS LLC. Eddy County, NM (NAD83) NMEZ Grid BIG N TASTY 2 STATE COM BNT 2 STATE COM 52H 52H LATERAL Plan #1 Created By: Mekka Williams eSomina Well Design mekka@esominawelldesign.com

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid BIG N TASTY 2 STATE COM BNT 2 STATE COM 52H

52H LATERAL

Plan: Plan #1

Standard Planning Report

11 November, 2022

6,263.19 11,394.32		89.44		9.59	5,750.00	166.10	5,109.70	0.00	0.00	0.00		BNT 2 52H PBHL 50	
6,263,19													
		89.44		9.59	5,700.00	129.50	-21.06	10.00	10.00	0.00	0.01		
5,968.77		60.00		9.59	5,623.27	127.49	-301.95	0.00	0.00	0.00	0.00		
5,768.77		60.00		9.59	5,523.27	126.24	-475.15	7.00	4.53	16.60	173.28		
4,729.15		12.87		7.00	4,633.67	0.77 106.10	-71.43	0.00	0.00	0.00	0.00		
1,143.50		12.87		7.00	1,138.10	8.77	-71.43	2.00	2.00	0.00	277.00		
0.00 500.00		0.00 0.00		0.00 0.00	0.00 500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00		
0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Measured Depth (usft)	Inclina (°)		Azimut (°)	h l	ertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
Plan Sections													
							OWSG MWD	+ Sag Correct					
1	0.00	11,394	4.15 P	lan #1 (52	2H LATERA	L)	MWD+SAG+F		ion				
(usft))	(usf	t) S	urvey (W	-		Tool Name		Remarks				
Plan Survey To Depth Fr		jram Depth		Date 11	1/11/22								
					0.00		0.00	0	.00	8	9.59		
					(usft)		(usft)	-	sft)		(°)		
Vertical Sectio	n:			Dept	th From (TV	′D)	+N/-S	+E	E/-W	Dire	ection		
Version:					Phase): I	PROTOTYPE	Tie	On Depth:		0.00		
Design Audit Notes:		1 1011 #1											
Dosign		Plan #1											
			IGRF	2020		11/11/22	()	6.56		60.40		94.56382234	
Magnetics		Мос	lel Nam	е	Sample	e Date	Declina (°)	ition	Dip A (°	-		Strength nT)	
Wellbore		52H LA	TERAL										
Position Uncer	tainty			0.00 ι	usit We	ellhead Eleva	tion:		Gro	ound Level:		3,993.00 u	
		+E/-W		-0.20 u	usft Ea	sting:	4°	690,185.600	usft Lor	igitude:		-103.84853	
Well Position		+N/-S		20.00 t	usft No	rthing:		679,953.700	usft Lat	itude:		32.86827	
Well		BNT 2 S	TATE C	OM 52H									
From: Position Uncer	tainty:	Мар		0.00 us	Eastin	-	690,1	185.800 usft 13-3/16 "	Longitude: Grid Converg	ence:		-103.84853 0.26	
Site Position:		DIGIT			Northi	ng:	679,9	933.700 usft	Latitude:			32.86821	
Site			Δςτν 2	STATE C	OM								
Geo Datum: Map Zone:				atum 198 ern Zone	3		2						
Map System:	ι	JS State	-				System Dat	tum:	Me	ean Sea Level			
Project					3) NMEZ G	rid							
Vellbore: Design:		52H LA Plan #1											
Vell:				COM 52H			Survey Calculation Method: Minimum Curvature						
Site:				2 STATE	,		North Ref			Grid	0.00001 (7 11 11		
-						prid	MD Refere	anco:	3.00usft (AKIT	A5/)			
Company: Project:		Eddy C			ERS LLC.	Nut al	TVD Refer			3993+20 @ 401		,	

11/11/22 9:57:10PM

COMPASS 5000.15 Build 91

Databas	· · ·	PRIME EDM	Local Co-ordinate Reference:	Well BNT 2 STATE COM 52H
Compar		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 52H	Survey Calculation Method:	Minimum Curvature
Wellbor	e:	52H LATERAL		
Design:		Plan #1		

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	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	2.00	277.00	599.98	0.21	-1.73	-1.73	2.00	2.00	0.00
700.00	4.00	277.00	699.84	0.85	-6.93	-6.92	2.00	2.00	0.00
800.00	6.00	277.00	799.45	1.91	-15.58	-15.56	2.00	2.00	0.00
900.00	8.00	277.00	898.70	3.40	-27.67	-27.65	2.00	2.00	0.00
1,000.00	10.00	277.00	997.47	5.30	-43.20	-43.16	2.00	2.00	0.00
1,100.00	12.00	277.00	1,095.62	7.63	-62.14	-62.08	2.00	2.00	0.00
1,143.50	12.87	277.00	1,138.10	8.77	-71.43	-71.37	2.00	2.00	0.00
1,200.00	12.87	277.00	1,193.18	10.30	-83.92	-83.85	0.00	0.00	0.00
1,300.00	12.87	277.00	1,290.67	13.02	-106.03	-105.94	0.00	0.00	0.00
1,400.00	12.87	277.00	1,388.16	15.73	-128.14	-128.02	0.00	0.00	0.00
1,500.00	12.87	277.00	1,485.65	18.45	-150.25	-150.11	0.00	0.00	0.00
1,600.00	12.87	277.00	1,583.13	21.16	-172.36	-172.20	0.00	0.00	0.00
1,700.00	12.87	277.00	1,680.62	23.88	-194.46	-194.29	0.00	0.00	0.00
1,800.00	12.87	277.00	1,778.11	26.59	-216.57	-216.38	0.00	0.00	0.00
1,900.00	12.87	277.00	1,875.60	29.31	-238.68	-238.46	0.00	0.00	0.00
2,000.00	12.87	277.00	1,973.09	32.02	-260.79	-260.55	0.00	0.00	0.00
2,100.00	12.87	277.00	2,070.57	34.74	-282.90	-282.64	0.00	0.00	0.00
2,200.00	12.87	277.00	2,168.06	37.45	-305.00	-304.73	0.00	0.00	0.00
2,300.00	12.87	277.00	2,265.55	40.16	-327.11	-326.82	0.00	0.00	0.00
2,400.00	12.87	277.00	2,363.04	42.88	-349.22	-348.90	0.00	0.00	0.00
2,500.00	12.87	277.00	2,460.52	45.59	-371.33	-370.99	0.00	0.00	0.00
2,600.00	12.87	277.00	2,558.01	48.31	-393.44	-393.08	0.00	0.00	0.00
2,700.00	12.87	277.00	2,655.50	51.02	-415.54	-415.17	0.00	0.00	0.00
2,800.00	12.87	277.00	2,752.99	53.74	-437.65	-437.26	0.00	0.00	0.00
2,900.00	12.87	277.00	2,850.48	56.45	-459.76	-459.34	0.00	0.00	0.00
3,000.00	12.87	277.00	2,947.96	59.17	-481.87	-481.43	0.00	0.00	0.00
3,100.00	12.87	277.00	3,045.45	61.88	-503.97	-503.52	0.00	0.00	0.00
3,200.00	12.87	277.00	3,142.94	64.59	-526.08	-525.61	0.00	0.00	0.00
3,300.00	12.87	277.00	3,240.43	67.31	-548.19	-547.70	0.00	0.00	0.00
3,400.00	12.87	277.00	3,337.91	70.02	-570.30	-569.78	0.00	0.00	0.00
3,500.00	12.87	277.00	3,435.40	72.74	-592.41	-591.87	0.00	0.00	0.00
3,600.00	12.87	277.00	3,532.89	75.45	-614.51	-613.96	0.00	0.00	0.00
3,700.00 3,800.00	12.87 12.87	277.00 277.00	3,630.38 3,727.87	78.17 80.88	-636.62 -658.73	-636.05 -658.13	0.00 0.00	0.00 0.00	0.00 0.00
3,900.00	12.87	277.00	3,825.35	83.60	-680.84	-680.22	0.00	0.00	0.00
4,000.00	12.87	277.00	3,922.84	86.31	-702.95	-702.31	0.00	0.00	0.00
4,100.00	12.87	277.00	4,020.33	89.03	-725.05	-724.40	0.00	0.00	0.00
4,200.00	12.87	277.00	4,117.82	91.74	-747.16	-746.49	0.00	0.00	0.00
4,300.00	12.87	277.00	4,215.30	94.45	-769.27	-768.57	0.00	0.00	0.00
4,400.00	12.87	277.00	4,312.79	97.17	-791.38	-790.66	0.00	0.00	0.00
4,500.00	12.87	277.00	4,410.28	99.88	-813.49	-812.75	0.00	0.00	0.00
4,600.00	12.87	277.00	4,507.77	102.60	-835.59	-834.84	0.00	0.00	0.00
4,700.00	12.87	277.00	4,605.26	105.31	-857.70	-856.93	0.00	0.00	0.00
4,729.15	12.87	277.00	4,633.67	106.10	-864.15	-863.37	0.00	0.00	0.00
4,750.00	11.42	277.86	4,654.06	106.67	-868.50	-867.71	7.00	-6.95	4.13
4,800.00	7.97	281.19	4,703.34	108.02	-876.80	-876.01	7.00	-6.91	6.65
4,850.00	4.58	289.46	4,753.03	109.36	-882.08	-881.28	7.00	-6.78	16.55
4,900.00	1.71	331.52	4,802.95	110.67	-884.32	-883.50	7.00	-5.74	84.12

11/11/22 9:57:10PM

COMPASS 5000.15 Build 91

Database: Company:	PRIME_EDM SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference: TVD Reference:	Well BNT 2 STATE COM 52H 3993+20 @ 4013.00usft (AKITA57)
Project: Site:	Eddy County, NM (NAD83) NMEZ Grid BIG N TASTY 2 STATE COM	MD Reference: North Reference:	3993+20 @ 4013.00usft (AKITA57) Grid
Well:	BNT 2 STATE COM 52H	Survey Calculation Method:	Minimum Curvature
Wellbore:	52H LATERAL		
Design:	Plan #1		

Planned Survey

м	leasured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	4,950.00	3.06	61.30	4,852.92	111.97	-883.50	-882.68	7.00	2.71	179.56
	5,000.00	6.35	76.91	4,902.75	113.24	-879.63	-878.80	7.00	6.58	31.22
	5,050.00	9.79	81.76	4,952.25	114.48	-872.73	-871.89	7.00	6.87	9.70
	5,100.00	13.26	84.10	5,001.23	115.67	-862.82	-861.97	7.00	6.94	4.68
	5,150.00	16.74	85.48	5,049.52	116.83	-849.93	-849.08	7.00	6.96	2.76
	5,200.00	20.23	86.39	5,096.94	117.94	-834.12	-833.26	7.00	6.98	1.83
	5,200.00	20.23	00.39	5,090.94	117.94	-034.12	-033.20	7.00	0.90	1.05
	5,250.00	23.72	87.05	5,143.30	119.01	-815.45	-814.58	7.00	6.98	1.31
	5,300.00	27.21	87.54	5,188.43	120.01	-793.98	-793.10	7.00	6.99	0.99
	5,350.00	30.71	87.93	5,232.17	120.96	-769.79	-768.90	7.00	6.99	0.78
	5,400.00	34.20	88.25	5,274.36	121.85	-742.98	-742.08	7.00	6.99	0.64
	5,450.00	37.70	88.52	5,314.83	122.68	-713.64	-712.74	7.00	6.99	0.53
	E E00 00	41.20	88.74	5,353.43	123.44	601.00	-680.98	7.00	6.99	0.45
	5,500.00	41.20	88.94	5,353.43 5,390.02	123.44	-681.88 -647.83	-646.92	7.00	6.99 6.99	0.39
	5,550.00			,						
	5,600.00	48.19	89.11	5,424.47	124.74	-611.60	-610.70	7.00	7.00	0.35
	5,650.00	51.69	89.27	5,456.64	125.28	-573.34	-572.43	7.00	7.00	0.31
	5,700.00	55.19	89.41	5,486.42	125.74	-533.19	-532.28	7.00	7.00	0.28
	5,750.00	58.69	89.54	5,513.70	126.12	-491.30	-490.38	7.00	7.00	0.26
	5,768.77	60.00	89.59	5,523.27	126.24	-475.15	-474.24	7.00	7.00	0.25
	5,800.00	60.00	89.59	5,538.88	126.44	-448.11	-447.19	0.00	0.00	0.00
	5,900.00	60.00	89.59	5,588.88	127.06	-361.50	-360.59	0.00	0.00	0.00
	5,968.77	60.00	89.59	5,623.27	127.49	-301.95	-301.03	0.00	0.00	0.00
	6,000.00	63.12	89.59	5,638.14	127.69	-274.49	-273.57	10.00	10.00	0.00
	6,050.00	68.12	89.59	5,658.77	128.02	-228.97	-228.04	10.00	10.00	0.00
	6,100.00	73.12	89.59	5,675.35	128.35	-181.81	-180.89	10.00	10.00	0.00
	6,150.00	78.12	89.59	5,687.76	128.70	-133.40	-132.47	10.00	10.00	0.00
	6,200.00	83.12	89.59	5,695.91	129.05	-84.08	-83.16	10.00	10.00	0.00
	6,250.00	88.12	89.59	5,699.72	129.41	-34.24	-33.32	10.00	10.00	0.00
	6,263.19	89.44	89.59	5,700.00	129.50	-21.06	-20.14	10.00	10.00	0.00
	6,300.00	89.44	89.59	5,700.36	129.77	15.75	16.68	0.00	0.00	0.00
	6,400.00	89.44	89.59	5,701.33	130.48	115.74	116.67	0.00	0.00	0.00
	6,500.00	89.44	89.59	5,702.31	131.19	215.73	216.67	0.00	0.00	0.00
	6,600.00	89.44	89.59	5,703.28	131.91	315.73	316.66	0.00	0.00	0.00
	6,700.00	89.44	89.59	5,704.26	132.62	415.72	416.66	0.00	0.00	0.00
	6,800.00	89.44	89.59	5,705.23	133.33	515.71	516.65	0.00	0.00	0.00
	6,900.00	89.44	89.59	5,706.21	134.05	615.71	616.65	0.00	0.00	0.00
	7,000.00	89.44	89.59	5,707.18	134.76	715.70	716.64	0.00	0.00	0.00
	7,100.00	89.44	89.59	5.708.16	135.47	815.69	816.64	0.00	0.00	0.00
	7,200.00	89.44	89.59	5,709.13	136.19	915.68	916.63	0.00	0.00	0.00
	7,300.00	89.44	89.59	5,710.10	136.90	1,015.68	1,016.63	0.00	0.00	0.00
	7,400.00	89.44	89.59	5,711.08	137.61	1,115.67	1,116.63	0.00	0.00	0.00
	7,500.00	89.44	89.59	5,712.05	138.33	1,215.66	1,216.62	0.00	0.00	0.00
	7,600.00	89.44	89.59	5,713.03	139.04	1,315.65	1,316.62	0.00	0.00	0.00
	7,700.00	89.44	89.59	5,714.00	139.75	1,415.65	1,416.61	0.00	0.00	0.00
	7,800.00	89.44	89.59	5,714.98	140.46	1,515.64	1,516.61	0.00	0.00	0.00
	7,900.00	89.44	89.59	5,715.95	141.18	1,615.63	1,616.60	0.00	0.00	0.00
	8,000.00	89.44	89.59	5,716.93	141.89	1,715.63	1,716.60	0.00	0.00	0.00
	8,100.00	89.44	89.59	5,717.90	142.60	1,815.62	1,816.59	0.00	0.00	0.00
	8,200.00	89.44	89.59	5,718.87	143.32	1,915.61	1,916.59	0.00	0.00	0.00
	8,300.00	89.44	89.59	5,719.85	144.03	2,015.60	2,016.58	0.00	0.00	0.00
	8,400.00	89.44	89.59	5,720.82	144.74	2,115.60	2,010.50	0.00	0.00	0.00
	8,500.00	89.44	89.59	5,721.80	145.46	2,115.00	2,110.50	0.00	0.00	0.00
	8,600.00	89.44	89.59	5,722.77	146.17	2,315.58	2,316.57	0.00	0.00	0.00
	8,700.00	89.44	89.59	5,723.75	146.88	2,415.57	2,416.56	0.00	0.00	0.00

11/11/22 9:57:10PM

Database:	PRIME_EDM SPUR ENERGY PARTNERS LLC.	Local Co-ordinate Reference:	Well BNT 2 STATE COM 52H
Company: Project:	Eddy County, NM (NAD83) NMEZ Grid	TVD Reference: MD Reference:	3993+20 @ 4013.00usft (AKITA57) 3993+20 @ 4013.00usft (AKITA57)
Site: Well:	BIG N TASTY 2 STATE COM BNT 2 STATE COM 52H	North Reference: Survey Calculation Method:	Grid Minimum Curvature
Wellbore:	52H LATERAL	Survey Calculation Method.	
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.00	89.44	89.59	5,724.72	147.60	2,515.57	2,516.56	0.00	0.00	0.00
8,900.00	89.44	89.59	5,725.70	148.31	2,615.56	2,616.55	0.00	0.00	0.00
9,000.00	89.44	89.59	5,726.67	149.02	2,715.55	2,716.55	0.00	0.00	0.00
9,100.00	89.44	89.59	5,727.64	149.74	2,815.55	2,816.54	0.00	0.00	0.00
9,200.00	89.44	89.59	5,728.62	150.45	2,915.54	2,916.54	0.00	0.00	0.00
9,300.00	89.44	89.59	5,729.59	151.16	3,015.53	3,016.54	0.00	0.00	0.00
9,400.00	89.44	89.59	5,730.57	151.88	3,115.52	3,116.53	0.00	0.00	0.00
9,500.00	89.44	89.59	5,731.54	152.59	3,215.52	3,216.53	0.00	0.00	0.00
9,600.00	89.44	89.59	5,732.52	153.30	3,315.51	3,316.52	0.00	0.00	0.00
9,700.00	89.44	89.59	5,733.49	154.02	3,415.50	3,416.52	0.00	0.00	0.00
9,800.00	89.44	89.59	5,734.46	154.73	3,515.49	3,516.51	0.00	0.00	0.00
9,900.00	89.44	89.59	5,735.44	155.44	3,615.49	3,616.51	0.00	0.00	0.00
10,000.00	89.44	89.59	5,736.41	156.16	3,715.48	3,716.50	0.00	0.00	0.00
10,100.00	89.44	89.59	5,737.39	156.87	3,815.47	3,816.50	0.00	0.00	0.00
10,200.00	89.44	89.59	5,738.36	157.58	3,915.47	3,916.49	0.00	0.00	0.00
10,300.00	89.44	89.59	5,739.34	158.30	4,015.46	4,016.49	0.00	0.00	0.00
10,400.00	89.44	89.59	5,740.31	159.01	4,115.45	4,116.48	0.00	0.00	0.00
10,500.00	89.44	89.59	5,741.29	159.72	4,215.44	4,216.48	0.00	0.00	0.00
10,600.00	89.44	89.59	5,742.26	160.43	4,315.44	4,316.47	0.00	0.00	0.00
10,700.00	89.44	89.59	5,743.23	161.15	4,415.43	4,416.47	0.00	0.00	0.00
10,800.00	89.44	89.59	5,744.21	161.86	4,515.42	4,516.46	0.00	0.00	0.00
10,900.00	89.44	89.59	5,745.18	162.57	4,615.41	4,616.46	0.00	0.00	0.00
11,000.00	89.44	89.59	5,746.16	163.29	4,715.41	4,716.45	0.00	0.00	0.00
11,100.00	89.44	89.59	5,747.13	164.00	4,815.40	4,816.45	0.00	0.00	0.00
11,200.00	89.44	89.59	5,748.11	164.71	4,915.39	4,916.44	0.00	0.00	0.00
11,300.00	89.44	89.59	5,749.08	165.43	5,015.38	5,016.44	0.00	0.00	0.00
11,394.32	89.44	89.59	5,750.00	166.10	5,109.70	5,110.76	0.00	0.00	0.00

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 52H SHL 120FWI - plan hits target cent - Point	0.00 ter	0.01	0.00	0.00	0.00	679,953.700	690,185.600	32.8682749	-103.8485379
BNT 2 52H KOP - plan misses target (- Point	0.00 center by 0.01	0.01 Iusft at 4729	4,633.67 .15usft MD (106.10 (4633.67 TVD,	-864.15 106.10 N, -86	680,059.800 64.15 E)	689,321.450	32.8685773	-103.8513508
BNT 2 52H LP - plan hits target cent - Point	0.00 ter	0.01	5,700.00	129.50	-21.06	680,083.200	690,164.540	32.8686311	-103.8486046
BNT 2 52H FTP 100FWI - plan misses target o - Point	0.00 center by 0.29	0.01 Jusft at 6263	5,700.00 .55usft MD (129.80 5700.01 TVD,	-20.70 129.51 N, -20	680,083.500).70 E)	690,164.900	32.8686319	-103.8486034
BNT 2 52H PBHL 50FEL - plan hits target cent - Point	0.00 ter	0.01	5,750.00	166.10	5,109.70	680,119.800	695,295.300	32.8686658	-103.8318937
BNT 2 52H LTP 100FEL - plan misses target o - Point	0.00 center by 44.3	0.01 33usft at 113	5,750.00 00.00usft MI	165.80 D (5749.08 TV	5,059.70 D, 165.43 N, 5	680,119.500 5015.38 E)	695,245.300	32.8686656	-103.8320565

11/11/22 9:57:10PM

Database:	PRIME_EDM	Local Co-ordinate Reference:	Well BNT 2 STATE COM 52H
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 52H	Survey Calculation Method:	Minimum Curvature
Wellbore:	52H LATERAL		
Design:	Plan #1		

.

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: 3140 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.
 - 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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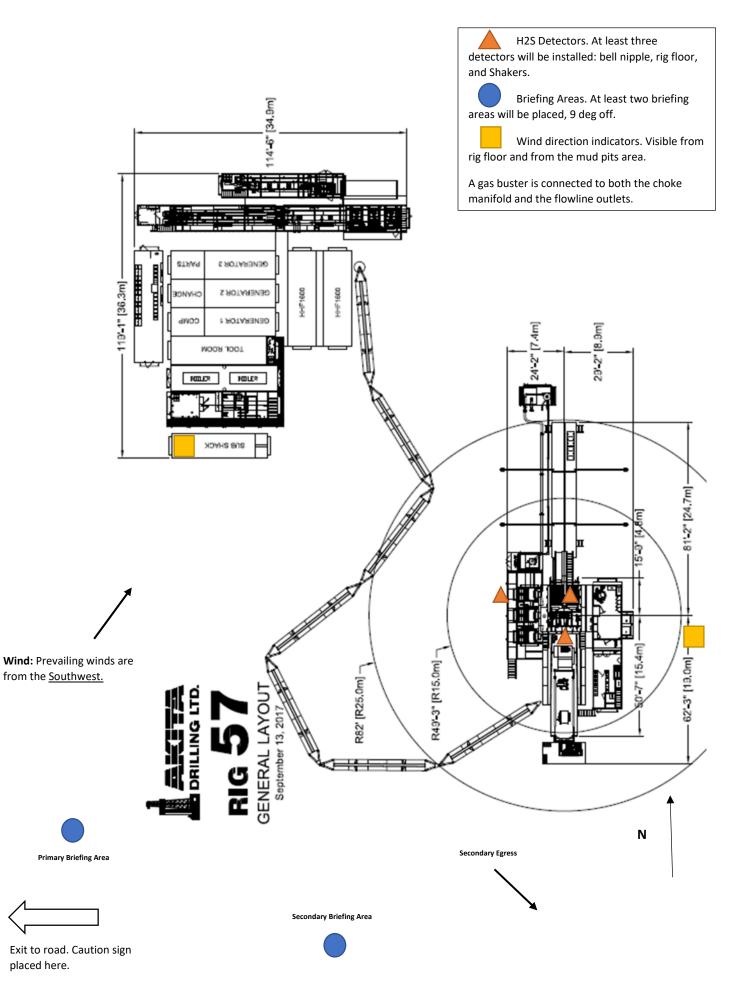


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Big N Tasty 2 State Com North Pad

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 Con	npletio	ns Depa	rtment		
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	Houston		832-930-8515	281-795-2286	
HES/Environmental a	nd Re	gulatory	Department		
EHS Manager - Braidy Moulder	Artesia	à	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	e	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		Washington, D.C. 20		02-282-2901	
New Mexico Air Quality Bureau			е	05-827-1494	
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	e	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 Enforcement - 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	
Law Enforcem	ent - FBI		
FBI	Albuquerque	505-224-2000	
FBI	Midland	432-570-0255	
Law 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	
Firefighting and R	tescue (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

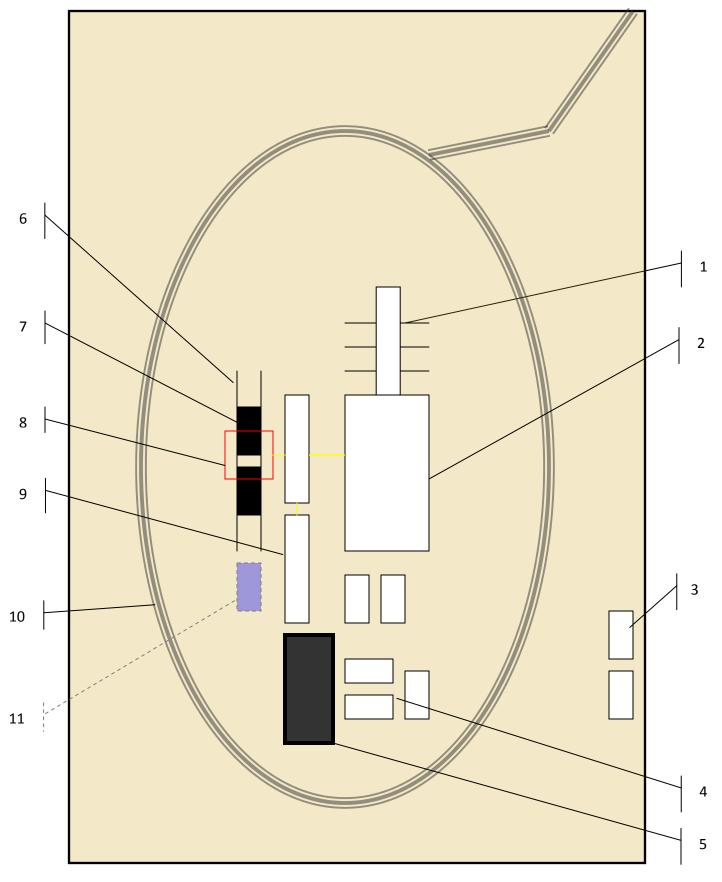
IVAR THE BONELESS FED 11H - BATTERY JC FEDERAL 13 TNK BTY JC FEDERAL 2 (SOUR) TNK BTY JC FEDERAL 27 TNK BTY JENKINS B FEDERAL TNK BTY **JG STATE 16 1 TANK BATTERY** JG STATE 16 7 TANK BATTERY JON BOB 1 JUNIPER STATE TNK BTY **KIOWA OIL BATTERY KOOL AID STATE** LAKEWOOD NORTH TANK BATTERY LAKEWOOD SOUTH 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



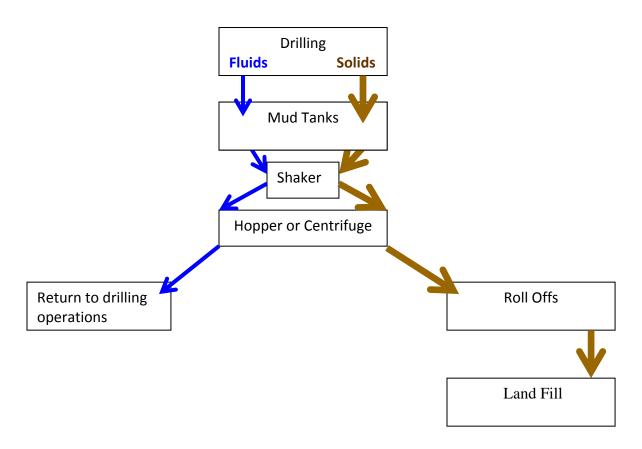


Above: Centrifugal Closed Loop System



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





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Field Service

Photos Courtesy of Gandy Corporation Oil

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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 247836

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	247836
	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	8/4/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/4/2023
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	8/4/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	8/4/2023
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	8/4/2023