Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM083591

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☑ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: RED STRIPE 5 FEDERAL COM 20H

2. Name of Operator: SPUR ENERGY PARTNERS LLC

9. API Well No.:

3a. Address: 9655 KATY FREEWAY, SUITE 500, Houston, TX 77024

3b. Phone No. *(include area code)*: (832) 930-8548

10. Field and Pool, or Exploratory: LOCO HILLS/GLORIETA-YESO

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: LOT 1 / 395 FNL / 685 FEL / LAT 32.8696907 / LONG -104.0049951

At proposed prod. zone: LOT 1 / 220 FNL / 50 FEL / LAT 32.870168 / LONG -103.9857262

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 6/T17S/R30E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 1 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 320.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 20 feet

19. Proposed Depth: 4650 feet / 10221 feet

20. BLM/BIA Bond No. in file: FED: NMB001783

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3703 feet

22. Approximate date work will start*: 11/04/2021

23. Estimated duration: 10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	SARAH CHAPMAN / Ph: (832) 930-8548	12/21/2020

Title: Regulatory Directory

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	11/12/2021

Title	Office
Assistant Field Manager Lands & Minerals	Carlsbad Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 11/12/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-015- 49230	96718	LOCO HILLS; GLORIETA-ESO

4 Property Code	5 Property Name	6 Well Number
326670	RED STRIPE 5 FEDERAL COM	20H

7 OGRID NO.	8 Operator Name	9 Elevation
328947	SPUR ENERGY PARTNERS LLC.	3703'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
1	6	17S	30E		395	NORTH	1015	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	17S	30E		220	NORTH	50	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320	infill		

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.

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GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
N: 680282.1 – E: 641816.3
LAT: 32.8696889° N
LONG: 104.0060699° W

FIRST TAKE POINT (FTP)
220' FNL & 100' FWL – SEC 5
N: 680461.0 – E: 642930.5
LAT: 32.8701709° N
LONG: 104.0024391° W

LAST TAKE POINT (LTP)
220' FNL & 100' FEL – SEC 5
N: 680476.3 – E: 648011.8
LAT: 32.8701681° N
LONG: 103.9858891° W

BOTTOM HOLE (BH)
N: 680476.4 – E: 648061.8
LAT: 32.8701680° N
LONG: 103.9857262° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1914"
N: 675387.8 – E: 637653.6

B: FOUND BRASS CAP "1914"
N: 678025.5 – E: 637653.4

C: FOUND BRASS CAP "1914"
N: 680665.9 – E: 637654.6

D: FOUND BRASS CAP "1916"
N: 680673.4 – E: 640190.1

E: FOUND BRASS CAP "1916"
N: 680680.6 – E: 642829.7

F: FOUND BRASS CAP "1916"
N: 680688.3 – E: 645470.0

G: FOUND BRASS CAP "1916"
N: 680696.5 – E: 648110.9

H: FOUND BRASS CAP "1916"
N: 678076.6 – E: 648121.2

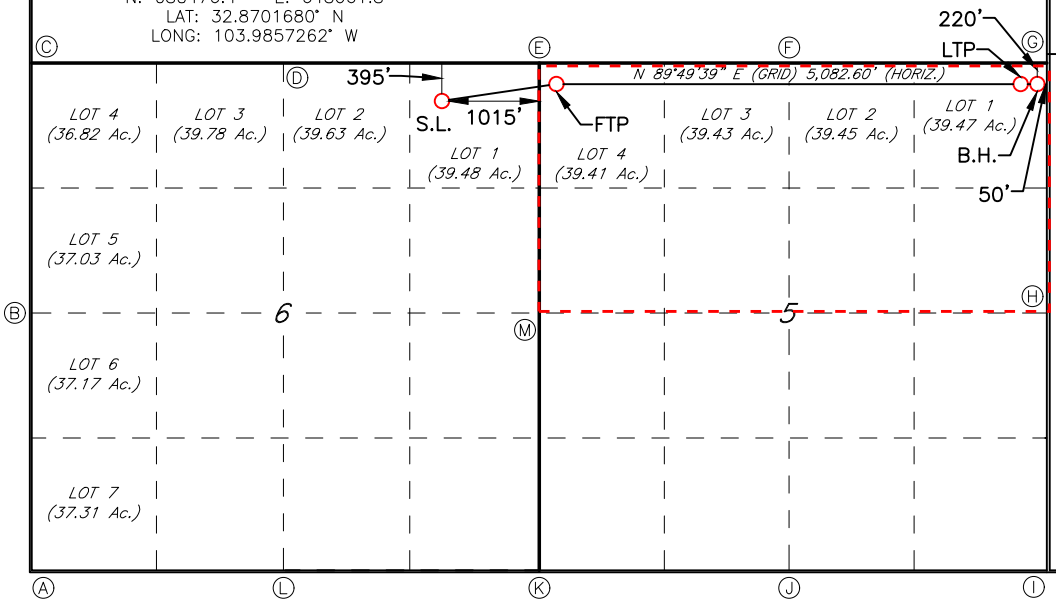
I: FOUND BRASS CAP "1916"
N: 675436.4 – E: 648128.9

J: FOUND BRASS CAP "1916"
N: 675428.2 – E: 645488.7

K: FOUND BRASS CAP "1916"
N: 675419.9 – E: 642848.2

L: FOUND BRASS CAP "1916"
N: 675403.7 – E: 640208.3

M: FOUND BRASS CAP "1916"
N: 678060.2 – E: 642838.9



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sarah Chapman 05/27/2021
Signature Date

SARAH CHAPMAN
Printed Name

SCHAPMAN@SPUREPLLC.COM
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

11-05-2020
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

19680
Certificate Number

SL MOVE – 12/1/2020

LS20100624

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: SPUR ENERGY PARTNERS LLC **OGRID:** 328947 **Date:** 01 / 27 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
RED STRIPE 5 FEDERAL COM 20H	30-015-PENDING	LOT 1-6-17S-30E	395' FNL 1015' FEL	269 BBL/D	379 MCF/D	702 BBL/D
RED STRIPE 5 FEDERAL COM 70H	30-015-PENDING	LOT 1-6-17S-30E	395' FNL 1035' FEL	250 BBL/D	267 MCF/D	765 BBL/D

IV. Central Delivery Point Name: RED STRIPE 5 FEDERAL COM CENTRAL TANK BATTERY [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
RED STRIPE 5 FEDERAL COM 20H	30-015-PENDING	04/29/2023	05/06/2023	06/22/2023	07/10/2023	07/10/2023
RED STRIPE 5 FEDERAL COM 70H	30-015-PENDING	05/07/2023	05/17/2023	06/22/2023	07/10/2023	07/10/2023

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. ☐ 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 ☐ will ☐ 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 ☐ does ☐ 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).

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

XIV. Confidentiality: ☐ 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:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	Sarah Chapman
Printed Name:	SARAH CHAPMAN
Title:	REGULATORY DIRECTOR
E-mail Address:	SCHAPMAN@SPURENERGY.COM
Date:	01/27/2022
Phone:	832-930-8613

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

Natural Gas Management Plan – Attachment

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

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

A. Spur will maximize the recovery of natural gas by minimizing waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Spur will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.

B. All drilling operations will be equipped with a rig flare at least 100 feet from the nearest surface hole location. Rig flare will be utilized to combust any natural gas that is brought to surface during normal operations. In the case of emergency, flaring volumes will be reported appropriately.

C. During completion operations any natural gas brought to surface will be flared. Immediately following completion operations, wells will flow to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. If natural gas does not meet gathering pipeline specifications, Spur will flare for 60 days or until natural gas meets the pipeline specifications. Spur will ensure flare is properly sized and is equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.

D. Natural gas will not be flared with the exception of 19.15.27.8(D)(1-4). If there is no adequate takeaway for the separator gas, wells will be shut-in until that natural gas gathering system is available with exception of emergency or malfunction situations. Volumes will be reported appropriately.

E. Spur will comply with performance standards pursuant to 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressures to minimize waste. Storage tanks constructed after May 25, 2021 will be equipped with an automatic gauging system that reduces venting of natural gas. Flare stacks installed or replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot. Spur will conduct AVO inspections as described in 19.15.27.8(E)(5)(a) with frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.

F. The volume of natural gas that is vented or flared as the result of an emergency or malfunction during drilling and/or completion operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared or beneficially used during production operations, will be measured and reported accordingly. Spur will install equipment to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or VRUs associated with a well or facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production of less than 60,000 cubic feet of natural gas. If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, Spur will estimate the volume of flared or vented natural gas. Measuring equipment will conform to industry standards and will not be equipped with a manifold

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.

Spur Energy Partners LLC – Red Stripe 5 Federal Com 20H

1. Geologic Formations

TVD of target	4650'
MD at TD	10221'

Formation	Depth	Lithology	Expected Fluids
Quaternary	0'	Dolomite, other: Caliche	Useable Water
Rustler	360'	Dolomite, Shale, Anhydrite	Other: Brackish Water
Top Salt	530'	Anhydrite	Other: Salt
Base Salt	1050'	Anhydrite	Other: Salt
Tansill	1105'	Dolomite, Limestone	None
Yates	1205'	Sandstone	Natural Gas, Oil
Seven Rivers	1495'	Dolomite, Sandstone	Natural Gas, Oil
Queen	2095'	Dolomite, Sandstone	Natural Gas, Oil
San Andres	2830'	Dolomite, Limestone	Natural Gas, Oil
Lower San Andres	3785'	Dolomite, Limestone	Natural Gas, Oil
Glorieta	4215'	Dolomite, Siltstone	Natural Gas, Oil
Yeso	6350'	Dolomite	Natural Gas, Oil

*H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Primary Plan:

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Hole Size (in)	Casing Interval		Csg. Size (in)	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	Body SF Tension	Joint SF Tension
	From (ft)	To (ft)								
17.5	0	450	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	1300	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
8.75	0	4850	7	32	L-80	BK-HT	1.125	1.2	1.4	1.4
8.75	4850	10221	5.5	20	L-80	BK-HT	1.125	1.2	1.4	1.4
							SF Values will meet or Exceed			

Spur Energy Partners LLC – Red Stripe 5 Federal Com 20H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Primary Plan:

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface Tail	0	450	165%
Intermediate (Lead)	0	450	100%
Intermediate (Tail)	450	1300	165%
Production (Lead)	0	3850	0%
Production (Tail)	3850	10221	50%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface Tail	346	13.2	2.32	9.92	6:59	Clas C Premium Plus Cement
Intermediate (Lead)	89	12.2	1.84	13.48	8:12	Clas C Premium Plus Cement
Intermediate (Tail)	312	13.2	2.32	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	459	11.8	2.54	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1254	13.2	1.81	9.81	N/A	Clas C Premium Plus Cement

Spur Energy Partners LLC – Red Stripe 5 Federal Com 20H

4. Pressure Control Equipment

Spur Energy Partners LLC variance for flex hose

1. Spur requests a variance to use a flex line from the BOP to the choke manifold. Documentation will be attached in the APD and be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no bends).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 3000 psi
			Pipe Ram	✓	
			Double Ram		
			Other*		
8.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure
		5M	Blind Ram	✓	250 psi / 3000 psi
			Pipe Ram	✓	
			Double Ram		
			Other*		

Spur Energy Partners LLC will be utilizing a 5M BOP

Condition	Specify what type and where?
BH Pressure at deepest TVD	2153 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	118°F

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.	
	Y	Are anchors required by manufacturer?

	A conventional wellhead system will be employed. 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. See attached schematics.

5. BOP Break Testing Request

Spur Energy Partners LLC requests permission to adjust the BOP break testing requirements as per the verbal agreement reached over the phone between SPUR/BLM on September 7, 2020. A separate sundry will be sent prior to spud that reflects the pad-based break testing plan.

BOP break test 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 3 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 skid, four tests will be performed.

1) The void between the wellhead and the spool (this consists of two tests)
2) The spool between the kill lines and the choke manifold (this consists of two tests)

If the kill line is not broken prior to skid, two tests will be performed.

1) The void between the wellhead and the pipe rams

6. Mud Program

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Spur will use a closed mud system.

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From (ft)	To (ft)				
0	450	Water-Based Mud	8.6-8.9	32-36	N/C
450	1300	Brine	10.0-10.5	32-36	N/C
1300	10221	Brine	10.0-10.5	32-36	N/C

What will be used to monitor the loss or gain of fluid?	PVT/PASON/Visual Monitoring

Spur Energy Partners LLC – Red Stripe 5 Federal Com 20H

7. Logging and Testing Procedures

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Additional logs planned		**Interval**
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

8. Drilling Conditions

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

Total estimated cuttings volume: 1117 bbls**.**

Spur Energy Partners LLC – Red Stripe 5 Federal Com 20H

9. Other facets of operation

	Yes/No
Will more than one drilling rig be used for drilling operations? If yes, describe. Spur Energy Partners LLC requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Spur Energy Partners LLC. would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Attachments
_x__ Directional Plan
_x__ H2S Contingency Plan
_x__ Akita 57 Attachment
_x__ Transcend Spudder Rig Attachment
_x__ BOP Schematics

10. Company Personnel

Name	Title	Office Phone	Mobile Phone
Christopher Hollis	Drilling Manager	832-930-8629	713-380-7754
Johnny Nabors	Senior Vice President Operations	832-930-8502	281-904-8811

Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)
Red Stripe 5 Fed Com
#20H

Wellbore #1

Plan: PERMIT

Standard Planning Report

06 December, 2020

SPUR ENERGY PARTNERS

Planning Report

WELLBENDERS DIRECTIONAL SERVICES

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #20H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3723.00usft
Project:	Eddy County, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3723.00usft
Site:	Red Stripe 5 Fed Com	**North Reference:**	Grid
Well:	#20H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project Eddy County, NM (NAD 83 - NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Red Stripe 5 Fed Com

Site Position:		**Northing:**	678,973.60 usft	**Latitude:**	32.8660913
From:	Map	**Easting:**	641,935.90 usft	**Longitude:**	-104.0056934
Position Uncertainty:	0.00 usft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.178 °

Well #20H

Well Position	**+N/-S**	1,308.50 usft	**Northing:**	680,282.10 usft	**Latitude:**	32.8696888
	+E/-W	-119.60 usft	**Easting:**	641,816.30 usft	**Longitude:**	-104.0060697
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,703.00 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/06/20	6.860	60.439	47,890.00865669

Design PERMIT

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.83

Plan Survey Tool Program **Date** 12/06/20

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,220.57	PERMIT (Wellbore #1)	MWD+IGRF	
				OWSG MWD + IGRF or WM	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.000	
511.66	4.23	50.60	511.47	4.96	6.04	2.00	2.00	0.00	50.597	
3,649.60	4.23	50.60	3,640.85	151.99	185.02	0.00	0.00	0.00	0.000	
4,595.59	60.00	89.83	4,413.28	177.52	661.22	6.00	5.90	4.15	40.907	
4,795.59	60.00	89.83	4,513.28	178.05	834.42	0.00	0.00	0.00	0.000	
5,088.89	89.33	89.83	4,590.00	178.90	1,114.20	10.00	10.00	0.00	0.000	RS5 #20H: FTP (22
10,170.56	89.33	89.83	4,649.42	194.35	6,195.50	0.00	0.00	0.00	0.000	RS5 #20H: LTP (22
10,220.57	89.33	89.83	4,650.00	194.50	6,245.50	0.00	0.00	0.00	0.000	RS5 #20H: PBHL (2

SPUR ENERGY PARTNERS

Planning Report

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Site:	Red Stripe 5 Fed Com	**North Reference:**	Grid
Well:	#20H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	50.60	399.98	1.11	1.35	1.35	2.00	2.00	0.00
500.00	4.00	50.60	499.84	4.43	5.39	5.41	2.00	2.00	0.00
511.66	4.23	50.60	511.47	4.96	6.04	6.05	2.00	2.00	0.00
600.00	4.23	50.60	599.57	9.10	11.08	11.10	0.00	0.00	0.00
700.00	4.23	50.60	699.29	13.79	16.78	16.82	0.00	0.00	0.00
800.00	4.23	50.60	799.02	18.47	22.49	22.54	0.00	0.00	0.00
900.00	4.23	50.60	898.75	23.16	28.19	28.26	0.00	0.00	0.00
1,000.00	4.23	50.60	998.48	27.84	33.89	33.98	0.00	0.00	0.00
1,100.00	4.23	50.60	1,098.20	32.53	39.60	39.69	0.00	0.00	0.00
1,200.00	4.23	50.60	1,197.93	37.21	45.30	45.41	0.00	0.00	0.00
1,300.00	4.23	50.60	1,297.66	41.90	51.00	51.13	0.00	0.00	0.00
1,400.00	4.23	50.60	1,397.38	46.59	56.71	56.85	0.00	0.00	0.00
1,500.00	4.23	50.60	1,497.11	51.27	62.41	62.56	0.00	0.00	0.00
1,600.00	4.23	50.60	1,596.84	55.96	68.12	68.28	0.00	0.00	0.00
1,700.00	4.23	50.60	1,696.57	60.64	73.82	74.00	0.00	0.00	0.00
1,800.00	4.23	50.60	1,796.29	65.33	79.52	79.72	0.00	0.00	0.00
1,900.00	4.23	50.60	1,896.02	70.01	85.23	85.43	0.00	0.00	0.00
2,000.00	4.23	50.60	1,995.75	74.70	90.93	91.15	0.00	0.00	0.00
2,100.00	4.23	50.60	2,095.47	79.38	96.63	96.87	0.00	0.00	0.00
2,200.00	4.23	50.60	2,195.20	84.07	102.34	102.59	0.00	0.00	0.00
2,300.00	4.23	50.60	2,294.93	88.76	108.04	108.30	0.00	0.00	0.00
2,400.00	4.23	50.60	2,394.66	93.44	113.75	114.02	0.00	0.00	0.00
2,500.00	4.23	50.60	2,494.38	98.13	119.45	119.74	0.00	0.00	0.00
2,600.00	4.23	50.60	2,594.11	102.81	125.15	125.46	0.00	0.00	0.00
2,700.00	4.23	50.60	2,693.84	107.50	130.86	131.18	0.00	0.00	0.00
2,800.00	4.23	50.60	2,793.56	112.18	136.56	136.89	0.00	0.00	0.00
2,900.00	4.23	50.60	2,893.29	116.87	142.26	142.61	0.00	0.00	0.00
3,000.00	4.23	50.60	2,993.02	121.55	147.97	148.33	0.00	0.00	0.00
3,100.00	4.23	50.60	3,092.75	126.24	153.67	154.05	0.00	0.00	0.00
3,200.00	4.23	50.60	3,192.47	130.93	159.38	159.76	0.00	0.00	0.00
3,300.00	4.23	50.60	3,292.20	135.61	165.08	165.48	0.00	0.00	0.00
3,400.00	4.23	50.60	3,391.93	140.30	170.78	171.20	0.00	0.00	0.00
3,500.00	4.23	50.60	3,491.66	144.98	176.49	176.92	0.00	0.00	0.00
3,600.00	4.23	50.60	3,591.38	149.67	182.19	182.63	0.00	0.00	0.00
3,649.60	4.23	50.60	3,640.85	151.99	185.02	185.47	0.00	0.00	0.00
3,700.00	6.81	67.53	3,691.01	154.32	189.22	189.68	6.00	5.12	33.60
3,750.00	9.63	74.85	3,740.49	156.54	196.00	196.46	6.00	5.63	14.65
3,800.00	12.53	78.85	3,789.56	158.68	205.36	205.83	6.00	5.80	7.99
3,850.00	15.47	81.36	3,838.07	160.74	217.28	217.75	6.00	5.88	5.01
3,900.00	18.43	83.08	3,885.89	162.69	231.72	232.20	6.00	5.92	3.44
3,950.00	21.40	84.33	3,932.90	164.54	248.64	249.13	6.00	5.94	2.51
4,000.00	24.37	85.30	3,978.96	166.29	268.01	268.50	6.00	5.95	1.93
4,050.00	27.36	86.06	4,023.94	167.93	289.75	290.25	6.00	5.96	1.53
4,100.00	30.34	86.68	4,067.73	169.45	313.83	314.33	6.00	5.97	1.25
4,150.00	33.33	87.21	4,110.21	170.85	340.16	340.67	6.00	5.97	1.04
4,200.00	36.32	87.65	4,151.25	172.13	368.68	369.19	6.00	5.98	0.89
4,250.00	39.31	88.04	4,190.74	173.27	399.31	399.82	6.00	5.98	0.77
4,300.00	42.30	88.38	4,228.59	174.29	431.96	432.48	6.00	5.98	0.68
4,350.00	45.29	88.68	4,264.67	175.18	466.55	467.07	6.00	5.99	0.61
4,400.00	48.29	88.95	4,298.91	175.93	502.98	503.50	6.00	5.99	0.55

SPUR ENERGY PARTNERS

Planning Report

WELLBENDERS DIRECTIONAL SERVICES

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Project:	Eddy County, NM (NAD 83 - NME)	**MD Reference:**	RKB = 20' @ 3723.00usft
Site:	Red Stripe 5 Fed Com	**North Reference:**	Grid
Well:	#20H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,450.00	51.28	89.20	4,331.19	176.54	541.15	541.67	6.00	5.99	0.50
4,500.00	54.27	89.43	4,361.43	177.01	580.96	581.48	6.00	5.99	0.46
4,550.00	57.27	89.64	4,389.55	177.34	622.29	622.82	6.00	5.99	0.42
4,595.59	60.00	89.83	4,413.28	177.52	661.22	661.74	6.00	5.99	0.40
4,600.00	60.00	89.83	4,415.48	177.53	665.04	665.56	0.00	0.00	0.00
4,700.00	60.00	89.83	4,465.48	177.80	751.64	752.16	0.00	0.00	0.00
4,795.59	60.00	89.83	4,513.28	178.05	834.42	834.95	0.00	0.00	0.00
4,800.00	60.44	89.83	4,515.47	178.06	838.25	838.77	10.00	10.00	0.00
4,850.00	65.44	89.83	4,538.21	178.20	882.76	883.29	10.00	10.00	0.00
4,900.00	70.44	89.83	4,556.98	178.34	929.09	929.61	10.00	10.00	0.00
4,950.00	75.44	89.83	4,571.64	178.48	976.87	977.40	10.00	10.00	0.00
5,000.00	80.44	89.83	4,582.08	178.63	1,025.75	1,026.28	10.00	10.00	0.00
5,050.00	85.44	89.83	4,588.23	178.78	1,075.36	1,075.88	10.00	10.00	0.00
5,088.89	89.33	89.83	4,590.00	178.90	1,114.20	1,114.73	10.00	10.00	0.00
5,100.00	89.33	89.83	4,590.13	178.93	1,125.31	1,125.83	0.00	0.00	0.00
5,200.00	89.33	89.83	4,591.30	179.24	1,225.30	1,225.83	0.00	0.00	0.00
5,300.00	89.33	89.83	4,592.47	179.54	1,325.29	1,325.82	0.00	0.00	0.00
5,400.00	89.33	89.83	4,593.64	179.85	1,425.29	1,425.81	0.00	0.00	0.00
5,500.00	89.33	89.83	4,594.81	180.15	1,525.28	1,525.81	0.00	0.00	0.00
5,600.00	89.33	89.83	4,595.98	180.45	1,625.27	1,625.80	0.00	0.00	0.00
5,700.00	89.33	89.83	4,597.15	180.76	1,725.26	1,725.79	0.00	0.00	0.00
5,800.00	89.33	89.83	4,598.31	181.06	1,825.26	1,825.79	0.00	0.00	0.00
5,900.00	89.33	89.83	4,599.48	181.37	1,925.25	1,925.78	0.00	0.00	0.00
6,000.00	89.33	89.83	4,600.65	181.67	2,025.24	2,025.77	0.00	0.00	0.00
6,100.00	89.33	89.83	4,601.82	181.97	2,125.24	2,125.77	0.00	0.00	0.00
6,200.00	89.33	89.83	4,602.99	182.28	2,225.23	2,225.76	0.00	0.00	0.00
6,300.00	89.33	89.83	4,604.16	182.58	2,325.22	2,325.75	0.00	0.00	0.00
6,400.00	89.33	89.83	4,605.33	182.89	2,425.21	2,425.75	0.00	0.00	0.00
6,500.00	89.33	89.83	4,606.50	183.19	2,525.21	2,525.74	0.00	0.00	0.00
6,600.00	89.33	89.83	4,607.67	183.49	2,625.20	2,625.73	0.00	0.00	0.00
6,700.00	89.33	89.83	4,608.84	183.80	2,725.19	2,725.72	0.00	0.00	0.00
6,800.00	89.33	89.83	4,610.01	184.10	2,825.18	2,825.72	0.00	0.00	0.00
6,900.00	89.33	89.83	4,611.18	184.41	2,925.18	2,925.71	0.00	0.00	0.00
7,000.00	89.33	89.83	4,612.34	184.71	3,025.17	3,025.70	0.00	0.00	0.00
7,100.00	89.33	89.83	4,613.51	185.01	3,125.16	3,125.70	0.00	0.00	0.00
7,200.00	89.33	89.83	4,614.68	185.32	3,225.16	3,225.69	0.00	0.00	0.00
7,300.00	89.33	89.83	4,615.85	185.62	3,325.15	3,325.68	0.00	0.00	0.00
7,400.00	89.33	89.83	4,617.02	185.93	3,425.14	3,425.68	0.00	0.00	0.00
7,500.00	89.33	89.83	4,618.19	186.23	3,525.13	3,525.67	0.00	0.00	0.00
7,600.00	89.33	89.83	4,619.36	186.53	3,625.13	3,625.66	0.00	0.00	0.00
7,700.00	89.33	89.83	4,620.53	186.84	3,725.12	3,725.66	0.00	0.00	0.00
7,800.00	89.33	89.83	4,621.70	187.14	3,825.11	3,825.65	0.00	0.00	0.00
7,900.00	89.33	89.83	4,622.87	187.45	3,925.10	3,925.64	0.00	0.00	0.00
8,000.00	89.33	89.83	4,624.04	187.75	4,025.10	4,025.64	0.00	0.00	0.00
8,100.00	89.33	89.83	4,625.21	188.05	4,125.09	4,125.63	0.00	0.00	0.00
8,200.00	89.33	89.83	4,626.38	188.36	4,225.08	4,225.62	0.00	0.00	0.00
8,300.00	89.33	89.83	4,627.54	188.66	4,325.07	4,325.62	0.00	0.00	0.00
8,400.00	89.33	89.83	4,628.71	188.97	4,425.07	4,425.61	0.00	0.00	0.00
8,500.00	89.33	89.83	4,629.88	189.27	4,525.06	4,525.60	0.00	0.00	0.00
8,600.00	89.33	89.83	4,631.05	189.57	4,625.05	4,625.60	0.00	0.00	0.00
8,700.00	89.33	89.83	4,632.22	189.88	4,725.05	4,725.59	0.00	0.00	0.00
8,800.00	89.33	89.83	4,633.39	190.18	4,825.04	4,825.58	0.00	0.00	0.00
8,900.00	89.33	89.83	4,634.56	190.49	4,925.03	4,925.57	0.00	0.00	0.00
9,000.00	89.33	89.83	4,635.73	190.79	5,025.02	5,025.57	0.00	0.00	0.00

Planning Report

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Design:	PERMIT		

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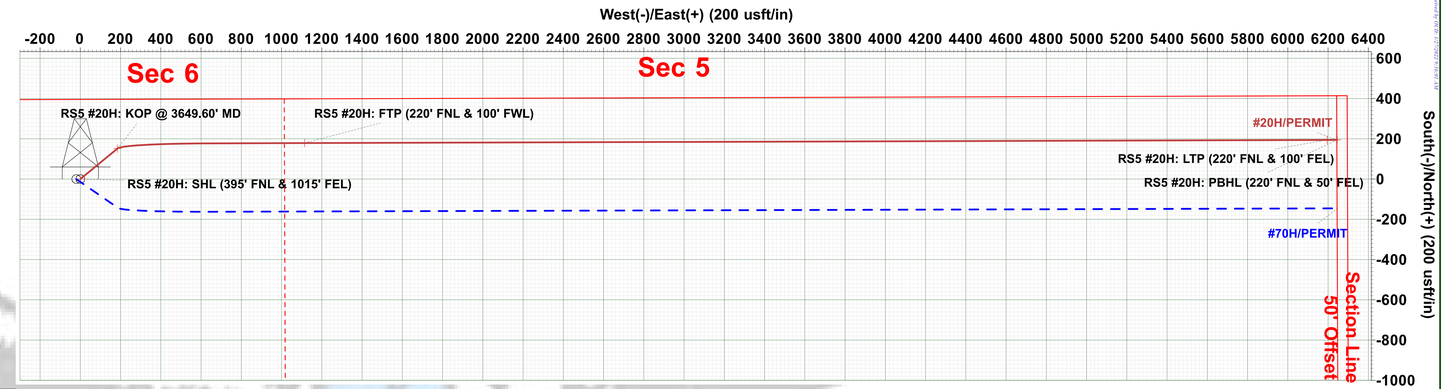
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,100.00	89.33	89.83	4,636.90	191.09	5,125.02	5,125.56	0.00	0.00	0.00
9,200.00	89.33	89.83	4,638.07	191.40	5,225.01	5,225.55	0.00	0.00	0.00
9,300.00	89.33	89.83	4,639.24	191.70	5,325.00	5,325.55	0.00	0.00	0.00
9,400.00	89.33	89.83	4,640.41	192.01	5,424.99	5,425.54	0.00	0.00	0.00
9,500.00	89.33	89.83	4,641.58	192.31	5,524.99	5,525.53	0.00	0.00	0.00
9,600.00	89.33	89.83	4,642.74	192.61	5,624.98	5,625.53	0.00	0.00	0.00
9,700.00	89.33	89.83	4,643.91	192.92	5,724.97	5,725.52	0.00	0.00	0.00
9,800.00	89.33	89.83	4,645.08	193.22	5,824.97	5,825.51	0.00	0.00	0.00
9,900.00	89.33	89.83	4,646.25	193.53	5,924.96	5,925.51	0.00	0.00	0.00
10,000.00	89.33	89.83	4,647.42	193.83	6,024.95	6,025.50	0.00	0.00	0.00
10,100.00	89.33	89.83	4,648.59	194.13	6,124.94	6,125.49	0.00	0.00	0.00
10,170.56	89.33	89.83	4,649.42	194.35	6,195.50	6,196.05	0.00	0.00	0.00
10,200.00	89.33	89.83	4,649.76	194.44	6,224.94	6,225.49	0.00	0.00	0.00
10,220.57	89.33	89.83	4,650.00	194.50	6,245.50	6,246.05	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
RS5 #20H: SHL (395'	0.00	0.00	0.00	0.00	0.00	680,282.10	641,816.30	32.8696888	-104.0060697
- plan hits target center									
- Point									
RS5 #20H: KOP @ 3(	0.00	0.00	3,640.85	151.99	185.02	680,434.09	642,001.32	32.8701050	-104.0054656
- plan hits target center									
- Point									
RS5 #20H: FTP (220'	0.00	0.00	4,590.00	178.90	1,114.20	680,461.00	642,930.50	32.8701710	-104.0024389
- plan hits target center									
- Point									
RS5 #20H: LTP (220'	0.00	0.00	4,649.42	194.20	6,195.50	680,476.30	648,011.80	32.8701682	-103.9858890
- plan misses target center by 0.15usft at 10170.56usft MD (4649.42 TVD, 194.35 N, 6195.50 E)									
- Point									
RS5 #20H: PBHL (22(	0.00	0.00	4,650.00	194.50	6,245.50	680,476.60	648,061.80	32.8701685	-103.9857261
- plan hits target center									
- Point									

Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Red Stripe 5 Fed Com
Well: #20H
Wellbore: Wellbore #1
Rig:
Design: PERMIT / 8:18, December 06 2020



WELL DETAILS: #20H

RKB = 20' @ 3723.00usft
3703.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	680282.10	641816.30	32.8696888	-104.0060697

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
3	511.66	4.23	50.60	511.47	4.96	6.04	2.00	6.05
4	3649.60	4.23	50.60	3640.85	151.99	185.02	0.00	185.47
5	4595.59	60.00	89.83	4413.28	177.52	661.22	6.00	661.74
6	4795.59	60.00	89.83	4513.28	178.05	834.42	0.00	834.95
7	5088.89	89.33	89.83	4590.00	178.90	1114.20	10.00	1114.73
8	10170.56	89.33	89.83	4649.42	194.35	6195.50	0.00	6196.05
9	10220.57	89.33	89.83	4650.00	194.50	6245.50	0.00	6246.05

CORRECTION REFERENCE DATA:

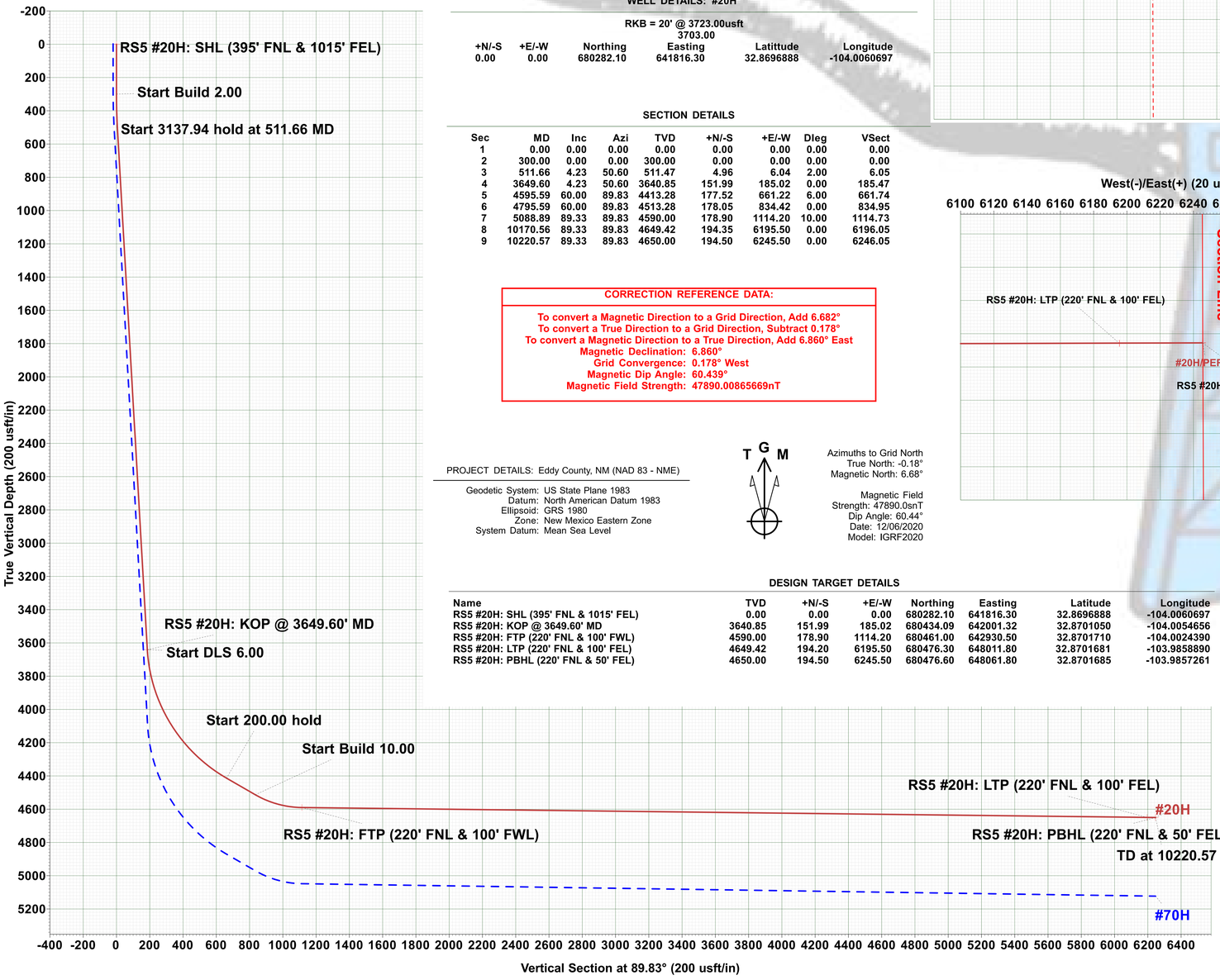
To convert a Magnetic Direction to a Grid Direction, Add 6.682°
To convert a True Direction to a Grid Direction, Subtract 0.178°
To convert a Magnetic Direction to a True Direction, Add 6.860° East
Magnetic Declination: 6.860°
Grid Convergence: 0.178° West
Magnetic Dip Angle: 60.439°
Magnetic Field Strength: 47890.00865669nT

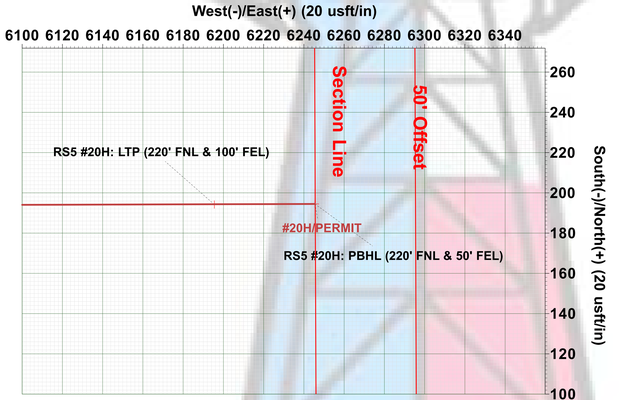
PROJECT DETAILS: Eddy County, NM (NAD 83 - NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Azimuths to Grid North
True North: -0.18°
Magnetic North: 6.68°

Magnetic Field
Strength: 47890.0snT
Dip Angle: 60.44°
Date: 12/06/2020
Model: IGRF2020



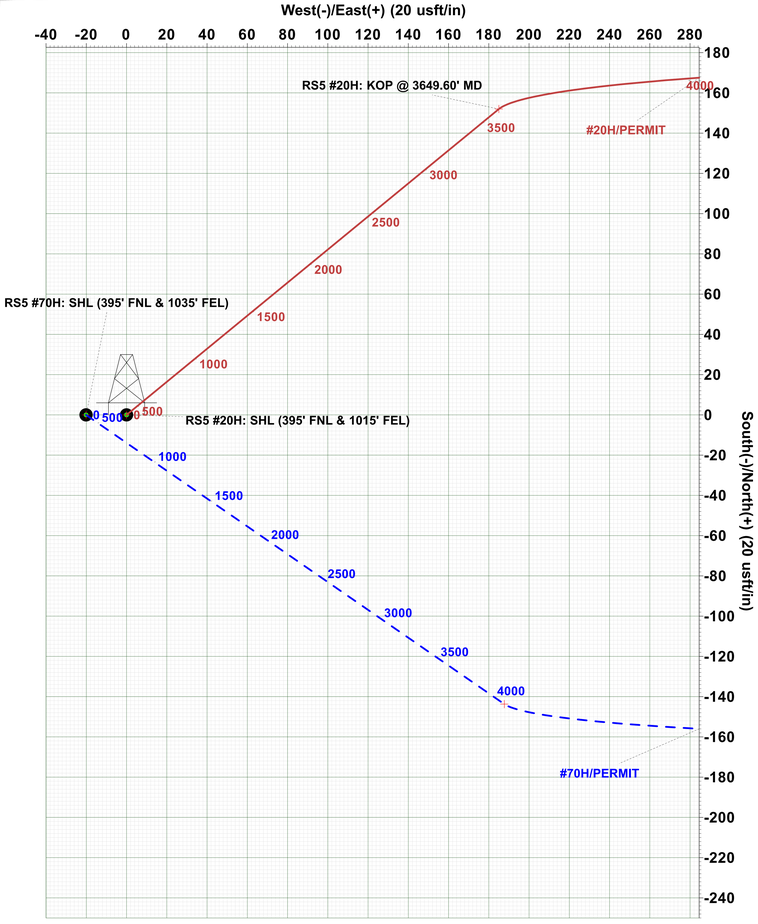


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
RS5 #20H: SHL (395' FNL & 1015' FEL)	0.00	0.00	0.00	680282.10	641816.30	32.8696888	-104.0060697
RS5 #20H: KOP @ 3649.60' MD	3640.85	151.99	185.02	680434.09	642001.32	32.8701050	-104.0054656
RS5 #20H: FTP (220' FNL & 100' FWL)	4590.00	178.90	1114.20	680461.00	642930.50	32.8701710	-104.0024390
RS5 #20H: LTP (220' FNL & 100' FEL)	4649.42	194.20	6195.50	680476.30	648011.80	32.8701681	-103.9858890
RS5 #20H: PBHL (220' FNL & 50' FEL)	4650.00	194.50	6245.50	680476.60	648061.80	32.8701685	-103.9857261

WELLBENDERS
DIRECTIONAL SERVICES LLC

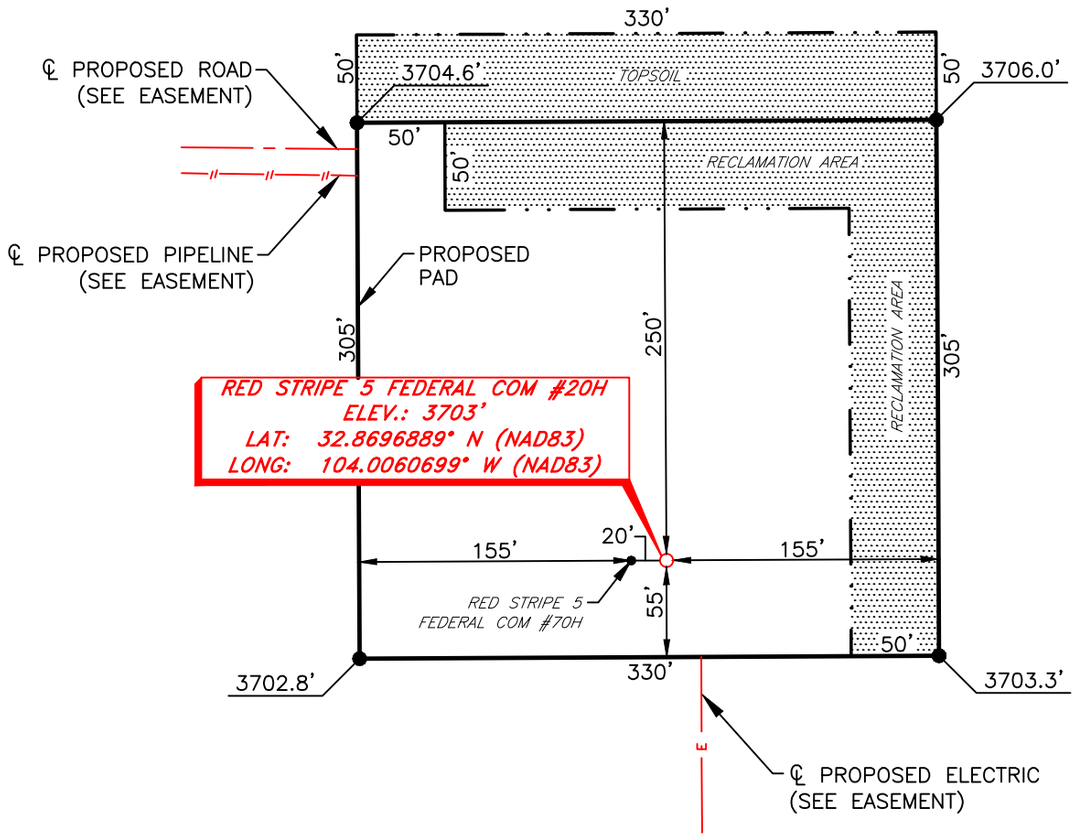
Disclaimer:
All Plan Details, boundary lines and offset well location/ survey data is provided by customer and subject to customer approval.



Plan: PERMIT (#20H/Wellbore #1)

Created By: Matthew May Date: 8:18, December 06 2020

SPUR ENERGY PARTNERS LLC.
RED STRIPE 5 FEDERAL COM #20H
(395' FNL & 1015' FEL)
SECTION 6, T17S, R30E
N. M. P. M., EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of CR #217 (Hagerman Cutoff Rd.) and CR #257 (Mallet Rd.);

Go West on CR #257 approx. 1.3 miles to a lease road on the left;

Turn left and go South approx. 0.1 miles to a proposed road on the left;

Turn left and go East approx. 315 feet to location on the right.

SCALE: 1" = 100'
0 50 100

BEARINGS ARE NAD 83 GRID – NM EAST DISTANCES ARE GROUND

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett

Robert M. Howett NM PS 19680

NO.	REVISION	DATE
1	RESTAKE	12/01/20
JOB NO.: LS20100624		
DWG. NO.: 20100624–4		

RRC

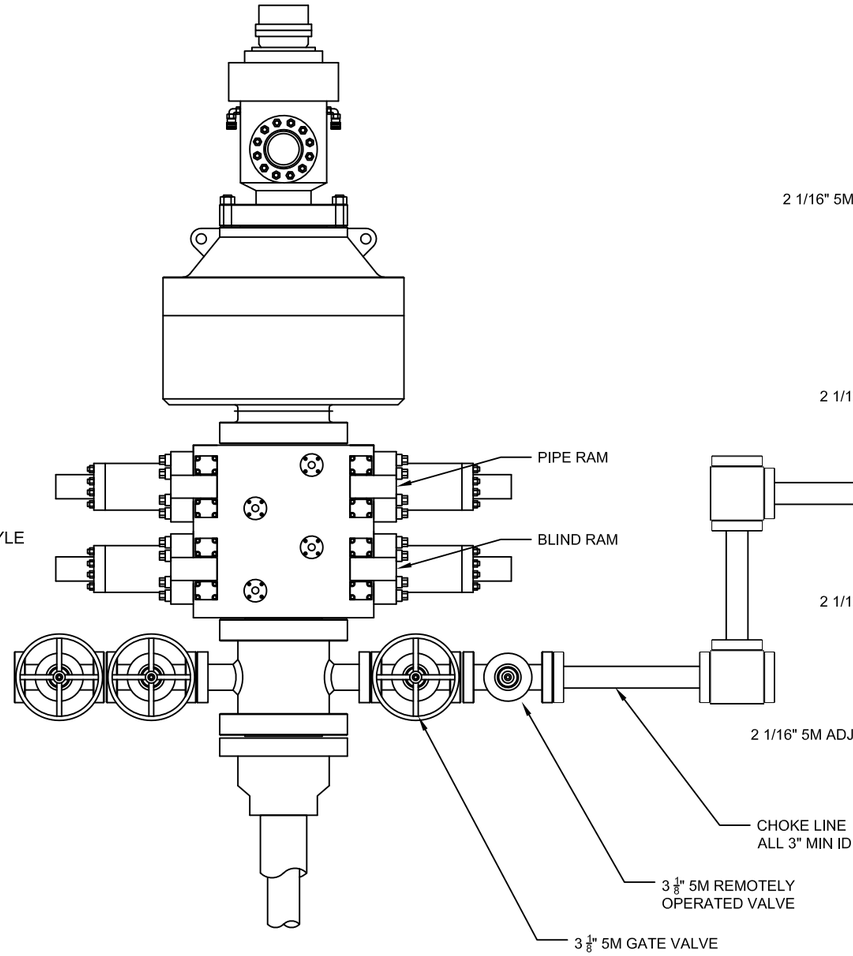
701 S. CECIL ST., HOBBS, NM 88240 (575) 964–8200

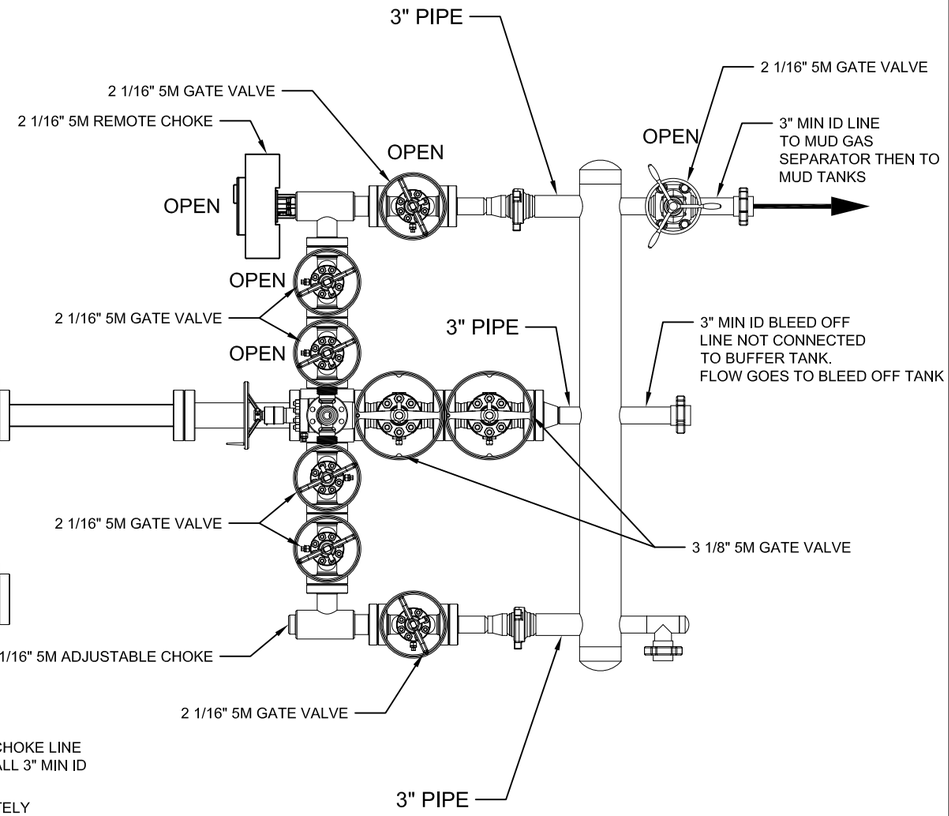
SCALE: 1" = 100'
DATE: 11–05–2020
SURVEYED BY: TM/RU
DRAWN BY: GA
APPROVED BY: RMH
SHEET: 1 OF 1

ANNULAR
13 5/8" 5,000 psi SHAFFER STYLE

DOUBLE GATE
13 5/8" 5,000 psi SHAFFER LWS STYLE

MUD CROSS
13 5/8" 5,000 psi, 3 1/8" 5M OUTLETS





Notes
-
-
-
-

No.	Revision	Date

AKITA DRILLING LTD.
2302 8th Street, Nisku Alberta
T9E 7Z2 Tel: (780) 955-6700

Date	Scale
5-6-2021	NTS
Dwn / Chk'd By: BG	File Name: R57 13 5M dou..
Project: R57	

RIG 57 BOP SCHEMATIC

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 75863

COMMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 75863
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
kpickford	Defining well 30-015-49229 Red Stripe 5 Federal COM 50H	2/1/2022

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

Action 75863

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	328947
	Action Number: 75863
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	2/1/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/1/2022
kpickford	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	2/1/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	2/1/2022
kpickford	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	2/1/2022