

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
Operator Copy

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM15291

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
DORAMI 33 FED COM 4H

9. API Well No.
30-015-46012-00-X1

10. Field and Pool or Exploratory Area
N SEVEN RIVERS-GLOR-YESO

11. County or Parish, State
EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
PERCUSSION PETROLEUM OPERATING, INC.
Contact: SARAH E CHAPMAN
Email: SCHAPMAN@SPUREPLLC.COM

3a. Address
919 MILAM STREET, SUITE 2475
HOUSTON, TX 77002

3b. Phone No. (include area code)
Ph: 832-930-8613

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 34 T19S R25E NWSW 1910FSL 850FWL
32.614964 N Lat, 104.478447 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Spur Energy Partners LLC respectfully requests to amend the approved drill plans with the updated casing and cementing design attached for the following well:

30-015-46012 Dorami 33 Federal Com 4H - NMNM015291

Please find updated C-102, Supplemental, Directional Plan, Plot and Drill Plan for your use.

Thank you.

BHL changed from: 1837' FSL 20' FWL
to: 1531' FSL 25' FWL

RECEIVED

JAN 06 2020

DISTRICT/ARTESIA O.C.D.

All previous Conditions of Approval still apply. DR

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #494228 verified by the BLM Well Information System
For PERCUSSION PETROLEUM OPERATING, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 12/04/2019 (20PP0565SE)

Name (Printed/Typed) SARAH E CHAPMAN

Title REGULATORY DIRECTOR

Signature (Electronic Submission)

Date 12/03/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By DYLAN ROSSMANGO

Title PETROLEUM ENGINEER

Date 12/12/2019

Conditions of approval, if any, are attached. Approval of this notice 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.

Office Carlsbad

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.

(Instructions on page 2)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

1/28/20 KS

RECEIVED

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) 334-4720
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
Santa Fe, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-46612	Pool Code 97565	Pool Name N. Senen Rincón; Alivieta Yeso
Property Code 317237	Property Name DORAMI 33 FED COM	Well Number 4H
OGRID No. 328947	Operator Name SPUR ENERGY PARTNERS, LLC	Elevation 3529'

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	34	19-S	25-E		1910	SOUTH	850	WEST	EDDY

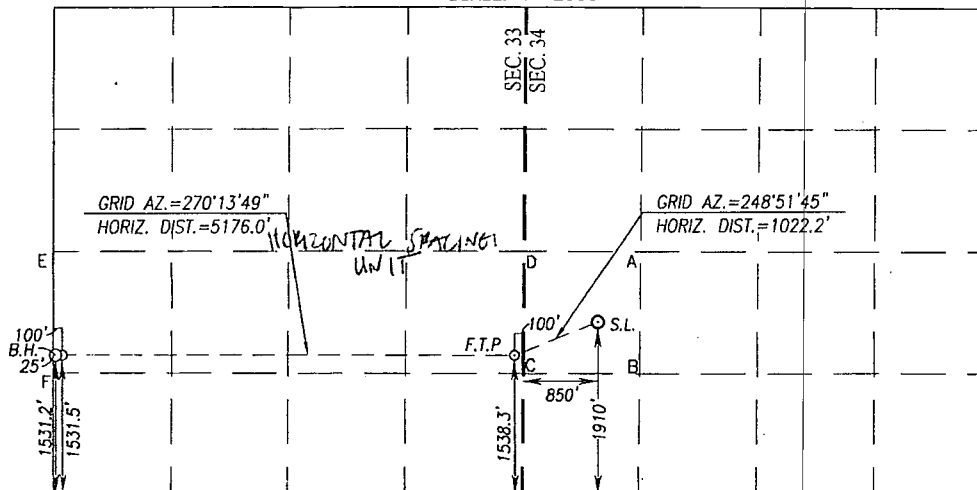
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	33	19-S	25-E		1531.2	SOUTH	25	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SCALE: 1"=2000'



OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Sarah Chapman
Date: 11/14/19
Printed Name: Sarah Chapman
E-mail Address: chapman@spurllc.com

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.

Date of Survey: 09/04/2019
Signature: Ronald J. Eidson
Professional Surveyor Seal: 3239
Certificate Number: Gary G. Eidson 12641, Ronald J. Eidson 3239
LSL Rel w.o.: 18.11.0956 JWSC W.O.: 19.13.0964

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 587077.4 N
X= 449351.0 E
LAT.=32.613872° N
LONG.=104.497825° W

LAST TAKE POINT
NAD 27 NME
Y= 587077.1 N
X= 449426.0 E
LAT.=32.613872° N
LONG.=104.497582° W

FIRST TAKE POINT
NAD 27 NME
Y= 587056.6 N
X= 454525.6 E
LAT.=32.613836° N
LONG.=104.481020° W

GEODETIC COORDINATES
NAD 27 NME
SURFACE LOCATION
Y= 587425.1 N
X= 455478.7 E
LAT.=32.614852° N
LONG.=104.477926° W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 587138.0 N
X= 490529.4 E
LAT.=32.613985° N
LONG.=104.498346° W

LAST TAKE POINT
NAD 83 NME
Y= 587137.7 N
X= 490604.4 E
LAT.=32.613985° N
LONG.=104.498102° W

FIRST TAKE POINT
NAD 83 NME
Y= 587117.2 N
X= 495704.0 E
LAT.=32.613949° N
LONG.=104.481540° W

GEODETIC COORDINATES
NAD 83 NME
SURFACE LOCATION
Y= 587485.7 N
X= 496657.2 E
LAT.=32.614965° N
LONG.=104.478446° W

CORNER COORDINATES TABLE
NAD 27 NME

A - Y= 588195.5 N, X= 455959.0 E
B - Y= 586855.2 N, X= 455945.6 E
C - Y= 586859.8 N, X= 454623.7 E
D - Y= 588201.1 N, X= 454636.0 E
E - Y= 588218.1 N, X= 449328.3 E
F - Y= 586882.5 N, X= 449325.7 E

CORNER COORDINATES TABLE
NAD 83 NME

A - Y= 588256.2 N, X= 497137.5 E
B - Y= 586915.8 N, X= 497124.1 E
C - Y= 586920.4 N, X= 495802.2 E
D - Y= 588261.8 N, X= 495814.5 E
E - Y= 588278.7 N, X= 490506.6 E
F - Y= 586943.0 N, X= 490504.0 E

RECEIVED

Intent ☒ As Drilled ☐

JAN 06 2020

API #
30-015-46012Operator Name:
SPUR ENERGY PARTNERS LLCProperty Name:
DORAMI 33 FED COMDISTRICT 7 - ARTESIA CO.
Well Number
4H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude			NAD	

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	33	19S	25E		1538	SOUTH	100	EAST	EDDY
Latitude					Longitude			NAD	
32.613949					-104.481540			NAD83	

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
L	33	19S	25E		1532	SOUTH	100	WEST	EDDY
Latitude					Longitude			NAD	
32.613985					-104.498102			NAD83	

Is this well the defining well for the Horizontal Spacing Unit?

☒

Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:

Property Name:

Well Number

KZ 06/29/2018



Company: Spur Energy Partners, LLC
Project: Eddy County, NM (NAD 83 - NME)
Site: Dorami 33 Fed Com
Well: #4H
Wellbore: OH
Rig:
Design: Plan #3 / 10:49, October 29 2019

WELL DETAILS: #4H

Est RKB=17' @ 3546.00usft
3529.00

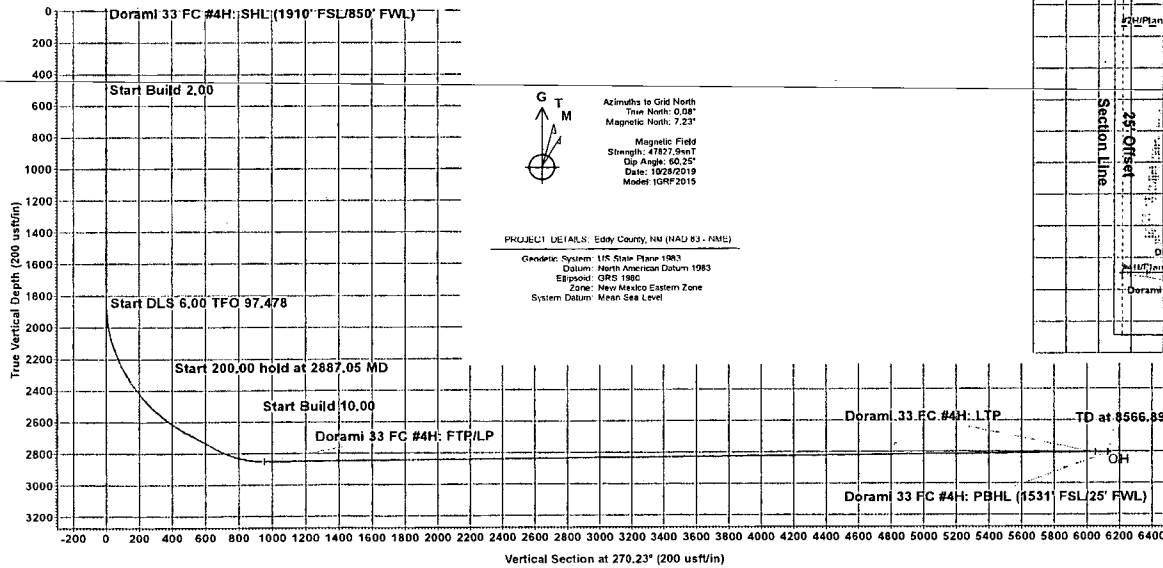
	N-S	E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	0.00	587485.70	496657.20	32.614965	-104.478446

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Deg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00
3	1173.49	13.47	180.42	1167.30	-78.80	-0.58	2.00	0.26
4	1872.69	13.47	180.42	1847.27	-241.66	-1.77	0.00	0.80
5	2887.05	60.00	270.23	2673.26	-370.37	-498.52	6.00	487.03
6	3087.05	60.00	270.23	2773.26	-369.67	-681.72	0.00	660.23
7	3392.05	90.50	270.23	2850.00	-368.50	-953.20	10.00	951.71
8	8451.89	90.50	270.23	2805.50	-348.00	-6052.80	0.00	6051.35
9	8566.89	90.50	270.23	2804.84	-347.70	-6127.80	0.00	6126.35

DESIGN TARGET DETAILS

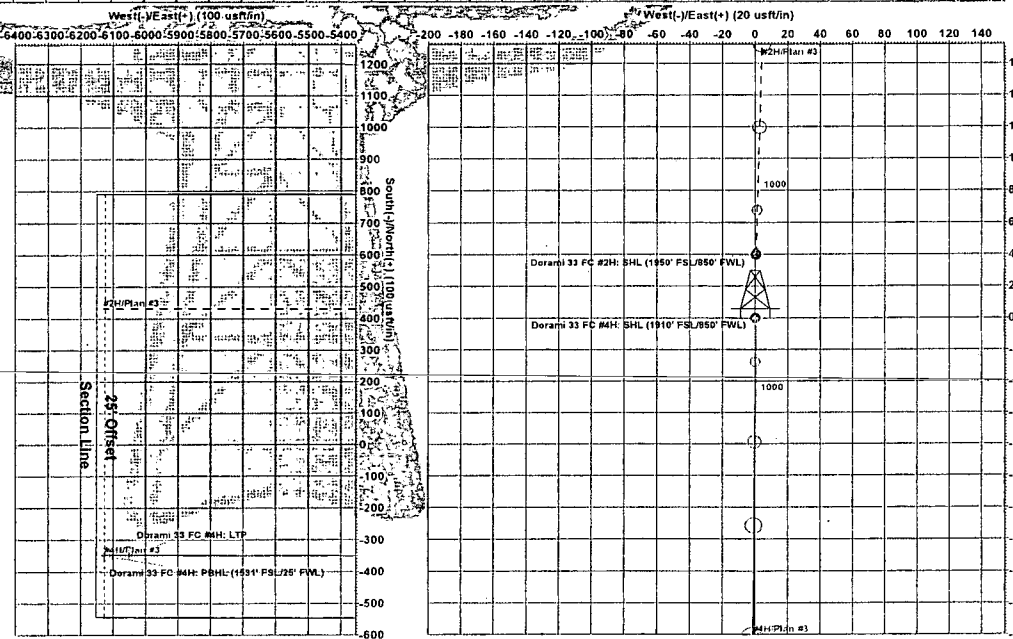
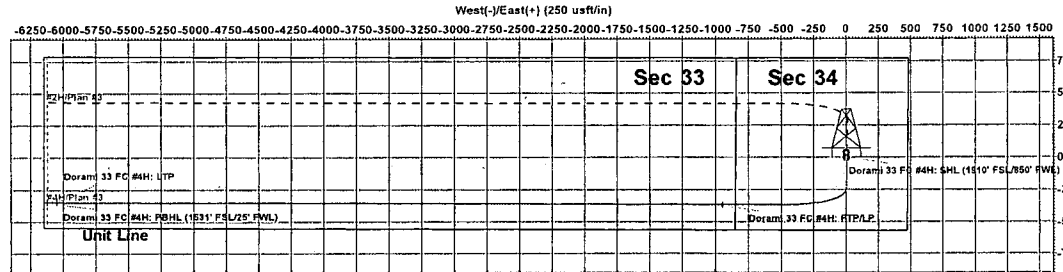
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Dorami 33 FC #4H: SHL (1910' FSL/850' FWL)	0.00	0.00	0.00	587485.70	496657.20	32.614965	-104.478446
Dorami 33 FC #4H: PBHL (1531' FSL/25' FWL)	2804.84	-347.70	-6127.80	587138.00	490529.40	32.613985	-104.498346
Dorami 33 FC #4H: LTP	2805.50	-348.00	-6052.80	587137.70	490604.40	32.613985	-104.498102
Dorami 33 FC #4H: FTR/LP	2850.00	-368.50	-953.20	587117.20	495704.00	32.613943	-104.481540



At Azimuths to Grid North
True North: 0.08°
Magnetic North: 7.23°
Magnetic Field
Strength: 47827.5nT
Dip Angle: 60.25°
Date: 10/29/2019
Model: IGRF2015

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

Geoid: System: U.S. State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Disclaimer:
All plan details, boundary
lines and offset well
locations shown are
subject to customer
and/or
well
logs.



Plan: Plan #3 (#4H/OH)

Created By: Derek Stephens Date: 10:49, October 29 2019

DRILLING PROGRAM

CASING DEPTHS:

9-5/8" 32# J-55 LT&C set at 1,250' inside
12 1/4 open hole, cemented to surface

5 1/2" 17# L-80 BT&C set at 8,567' inside
8 3/4 open hole, cemented to surface

7" 32# L-80 BT&C set at 3,090' inside
8 3/4 open hole, cemented to surface

POTENTIAL PROBLEMS: 0' - 1250'

Gravel, Red Beds and Water Sands. Seepage and losses. Tight hole.

1250' - TD Hole cleaning, seepage, and losses.

MUD PROGRAM:

<u>Interval</u>	<u>Mud Type</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>	<u>Plastic Viscosity</u>	<u>Yield Point</u>
0' - 1250'	FW / Gel	8.4 - 9.2 PPG	36 - 42	NC	3 - 5	5 - 7
Paper and gel sweeps to clean hole						
1250' - KOP	FW / Cut Brine	8.3 - 9.2 PPG	28 - 30	NC	1	1
Gel sweeps to clean hole and LCM pills for loss circulation. Raise vis to 34 - 40 if needed.						
KOP - TD	Cut Brine	8.6 - 9.2 PPG	29 - 32	10 - 12	4 - 5	6 - 10
Salt gel sweeps to clean hole and LCM pill for loss circulation. Only acid soluble LCM below surface casing. Increase vis to 34 - 40 if needed. If drag becomes a problem add Surfap PG. Drill curve and lateral section with XCD Polymer / Cut Brine / Starch system. Drill as close to pressure balanced as possible. Estimated BHP for the Yeso formation is 1216 psi.						

Mud additions to be coordinated through PPO representative.
This program is only a guide and hole conditions will dictate mud system requirements and changes.

ESTIMATED FORMATION TOPS / LITHOLOGY:

3,529' Ground Level 17' RKB

<u>Formation</u>	<u>MD</u>	<u>TVD</u>	<u>SS</u>	<u>Lithology</u>
Grayburg		659'	2,870'	Dolomite
San Andes		844'	2,685'	Dolomite
Glorieta		2,404'	1,125'	Silty Dolomite
Yeso		2,559'	970'	Dolomite
Mid Yeso Mkr		2,849'	680'	Dolomite

DRILL STEM TEST:

None

MUD LOGGING:

A one man mud logging unit will be in service prior to spudding well to total depth. Samples in the lateral/pay will be taken every 10'. Mud logger will assist in picking surface casing point. Only authorized personnel will be allowed access to mud logging unit. Mud logger will be in contact with C.J. Lipinski. EOL at 25' FWL is a hard line. Cut short to 45' FWL to avoid crossing hard line. Do not exceed without approval from John Nabors Operations Manager. Drilling Foreman is to be notified of changes in drilling parameters.

ELECTRIC LINE LOGS

None

DIRECTIONAL SURVEYS Straight hole specifications. Maximum deviation from vertical shall be no more than 3° inclination.

We will directionally drill according to the well plan in order to hit our intended landing zone.

We will drill as per directional plan to ~100 ft from lease line enabling us to locate our FTP 100' FEL

We will run 5 1/2" x 7" casing with 2 jt shoe track to TD and cement in place. Our LTP will be 100' FWL.

See directional plan for more details.

THIS IS A HORIZONTAL WELL WITH EXTREMELY TIGHT TOLERANCES. KEEP LELAN ANDERS AND CJ LIPINSKI INFORMED WITH ANY PROBLEMS MAINTAINING TARGET.

Straight Hole Specifications

Well Depth Feet	Maximum Distance Between Surveys	Maximum Deviation From Vertical
0' - 100'		3°
100' - 2,000'	MWD and Motor thru this section of hole. *	10°
2,000' - TD	MWD and Motor thru this section of hole.	

* Depending on directional plan. If vertical hole is used to 1800' MD (surface casing point) then minimum distance between surveys will be 250' MD 3° max deviation from vertical

WELLHEAD EQUIP:

9-5/8" Casing 9-5/8" 3M x 11" 3M SOW
7" Casing 11" 5M x 7-1/16" 10M Tubing Head

CASING DESIGN:**9-5/8" CASING**

9-5/8" Shoe	Casing Burst:	3,520 psi
1 Jt 9-5/8" 36# J-55 STC	Casing Collapse:	2,020 psi
9-5/8" Insert Float	Casing Tensile:	394,000 lbs
9-5/8" 36# J-55 STC To Surface		

CASING SAFETY FACTORS

	API Recommended Safety Factor	Actual Safety Factor	Scenario	External Fluids	Internal Fluids
Collapse:	1.125	3.30	Lost Circulation	Mud	None
Burst:	1.125	1.46	Plug Bump	Cement + 2000 psi applied pressure	Mud/Water
Tensile:	1.8	2.80	100k Overpull	Mud	Mud

CENTRALIZER PLACEMENT

Stop collar 10 feet above shoe with centralizer. One on first collar and every forth collar to surface, or as required by the BLM.

7" x 5 1/2" CASING

5 1/2" Shoe	Casing Burst:	5-1/2" 8,990 psi	7" 9,060 psi
2 Jts 5 1/2" 17# L80 BTC	Casing Collapse:	8,830 psi	8,600 psi
5 1/2" Float Collar	Casing Tensile:	466,000 lbs	745,000 lbs
5 1/2" 20# L80 BTC Casing To 3090'			
7" 32# L80 BTC Casing to surface			

CASING SAFETY FACTORS

	API Recommended Safety Factor	Actual Safety Factor	Scenario	External Fluids	Internal Fluids
Collapse:	1.125	3.75	Lost Circulation	Mud	None
Burst:	1.125	2.47	Plug Bump	Cement + 2000 psi applied pressure	Mud/Water
Tensile:	1.8	2.29	100k Overpull	Mud	Mud

CENTRALIZER PLACEMENT

Stop collar 10 feet above shoe with centralizer. One on first collar and every 10 collars to 1200 feet with one centralizer in 9-5/8" casing, or as required by the BLM.

REQUIREMENTS FOR ALL CASING:

Long string casing to be hydro tested before leaving yard.

Thread lock Float Shoe and joint connection between float equipment.

Unload and visually inspect casing, arranging on racks in order of running.

Strap all casing as it is unloaded, threads off. Count all joints on location.

Clean and inspect threads, drift, redope.

Check all casing markings and threads for correctness.

Check crossovers and crossover collars. Have back up collars.

Rope off and mark all casing not to be used.

PPO representative to supervise all casing operations.

Torque casing to optimal value.

CEMENT SCHEDULE: 9-5/8" CASINGAnnular Volume: **391.5** cubic ft

Lead Cement: **622.8 sks** Class "C" + 2% CaCl + 0.25 pps Celloflake
Weight 14.8 ppg, Yield 1.32 cfs, Mix Water 6.3 gps.
These volumes based on circulating cement to surface plus 100% excess
If cement does not circulate 1 inch cement to surface.

7" x 5 1/2" CASINGAnnular Volume: **1868.5** cubic ft

Lead Cement: **494.9 sks** 65/65/6 Class "C" + 6% gel + 5% salt + 0.25pps Celloflake + 0.2% C41-P
Weight 12.6 ppg, Yield 1.97 cfs, Mixing Water 10.84 gps
Tail Cement: **1398.1 sks** Class "C" + 2% CaCl + 0.25pps Celloflake
Weight 14.8 ppg, Yield 1.32 cfs, Mix Water 6.3 gps.
These volumes based on circulating cement to surface plus 50% excess

REQUIREMENTS FOR ALL CEMENT:

Have cement supervisor independently check cement volumes and displacement volumes.
Collect and identify cement sample from each pod.
Minimize out of hole time. Have cement head already installed on casing joint etc.
Run casing at a smooth even pace being certain not to break down well bore.
Plan for unexpected events, plug doesn't bump at target volume, pump or lift pressures off, etc.
Do not over pump displacement volume.
Ensure plug dropped behind good cement. Chase plug with 10 bbls of sugar water.
Weigh cement samples and take wet samples throughout job.
Run material balance at end of each job to ensure water and cement volumes used confirm was mixed at proper weight as designated.

DRILLING PROCEDURE

1. Build road and location as per rig requirements. Install Conductor to 90 ft. (THIS IS A CLOSED LOOP MUD SYSTEM)
2. Notify BLM (Carlsbad District) of rig moving in and tentative spud date.
3. Move in and rig up drill rig. Install valve in conductor pipe. Rig up closed loop system.
4. Order float equipment, Texas Pattern Guide Shoe, centralizers, and 9-5/8" casing to location. Visually inspect casing and arrange on racks in order of running. Rope off and mark all casing not to be used. Count all joints. Strap casing as it is unloaded (THREADS OFF). Inspect casing and check all casing markings and threads for correctness. Inspect and clean threads, redope, and drift casing. Closely inspect any crossover joints and have back up crossover collars on location. PPO supervisor to oversee all casing inspections, drifting, strapping, etc.
5. Drill 12-1/4" hole with fresh water Native Spud Mud to TD of surface hole interval. BHA 12-1/4" bit, bit sub, 12" OD stabilizer, 1- 8" drill collar, 12" OD stabilizer, 6 - 8" drill collars and 9 - 6" drill collars. Directional surveys (inclination only on sand line) every 500' and at TD of surface hole.
6. Notify BLM of TD and cement job.
7. Pump 2 high vis sweeps and circulate hole clean run gyro survey every 200' prior to pulling out of hole.
8. Pull out of hole and record any tight spots on IADC report. SLM out of hole. Make sure cement crew will be on location and rigged up before casing is on bottom prior to starting out of hole. Keep hole full.
9. Rig up casing crew and run 9-5/8" casing per casing design. Fill casing every 5 joints and circulate one joint off bottom. Run centralizers per design or as required by BLM. Wash to bottom if necessary.
10. Rig up cementers and test lines to 2000 psi. Have cement supervisor INDEPENDENTLY check cement volumes and displacement volumes. Collect and identify cement sample from each pod. Minimize out of hole time.
11. Circulate casing for 3 casing volumes minimum or until hole cleans up. While circulating hold final job meeting with cement company going over cement volumes, mixing water requirements, displacement volumes, pump pressure and rates, and contingency plans for unexpected events (i.e. plug does not bump at theoretical displacement volume etc.). Add 100% excess to calculated cement volume required. Don't over displace. Top out cement to surface with 1" tubing **IF** necessary.
12. Pump 20 barrels fresh water spacer ahead and pump cement volume per cement design for 9-5/8" casing and PPO representative. Bump plug to 500 psi over pump pressure. Drop plug in good cement. Record cement to surface on IADC report.
13. Hang casing in full tension. Close cement head for 8 hours.

14. WOC 8 hours before cutting off and 24 hours before drilling out per BLM rules.
15. Cut off casing and install 9-5/8" 3M x 11" 3M SOW A-section.
16. Nipple up BOP and test to 500 psi low and 3000 psi high with an independent test company before drilling out.
17. Pick up 8-3/4" bit, and directional drilling BHA. Trip in hole, tag cement and record on IADC report. Test casing to 1000 psi. Drill out float collar and float shoe with fresh water / cut brine 8.3 - 9.2 ppg to a depth Increase mud vis to 30-34 for hole cleaning and samples if needed. Mud program is a guide and hole conditions will dictate mud system requirements or changes. All mud additions will be coordinated through PPO representative.
18. Order float equipment, guide shoe, centralizers, 7" and 5 1/2" casing to location. Check for proper size, type, and thread of casing. Visually inspect casing and arrange on racks in order of running. Rope off and mark all casing not to be used. Count all joints. Strap casing as it is unloaded (THREADS OFF). Inspect casing and check all casing markings and threads for correctness. Inspect and clean threads, redope, and drift casing. Closely inspect any crossover joints and have back up crossover collars on location. PPO supervisor to oversee all casing inspections, drifting, strapping, etc. Casing to be hydro tested before leaving yard. Make sure there are a minimum of 2 marker joints in the string (on at KOP and one mid way through planned lateral).
19. Drill curve and lateral section with XCD Polymer / Cut Brine / Starch System. Increase viscosity as needed using oil and LF-24 to help keep hole slick to TMD if needed. Mud program is a guide and hole conditions will dictate mud system requirements or changes. All mud additions will be coordinated through PPO representative. Drilling breaks and hole problems will be coordinated with drilling foreman, Operations Manager and Engineer. Artesia and Houston offices will be advised daily or as needed.
20. Notify BLM of TD and cement job.
21. Pump high vis sweep and circulate hole clean.
22. Pull out of hole and record any tight spots on IADC report. SLM out of hole. Make sure cement crew will be on location and rigged up before casing is on bottom prior to starting out of hole. Keep hole full.
23. Rig up casing crew and run 7" x 5 1/2" casing per casing design. Fill casing every 10 joints and circulate casing at bottom of 9-5/8" casing and 1 joint off bottom. Run centralizers per design or as required by the BLM. Wash to bottom if necessary. Record any fill on IADC report.
24. Rig up cementers and test lines to 2000 psi. Have cement supervisor INDEPENDENTLY check cement volumes and displacement volumes. Collect and identify cement sample from each pod. Minimize out of hole time.
25. Circulate casing on bottom for 6 times casing volume minimum or until hole cleans up. While circulating hold final job meeting with cement company going over cement volumes, mixing water requirements, displacement volumes, pump pressure and rates, and contingency plans for unexpected events (i.e. plug does not bump at theoretical displacement volume etc.). Add 50% excess for cement volumes required. Don't over displace.
26. Pump 20 barrels fresh water spacer ahead and pump cement volume per cement design for 7" x 5 1/2" casing and PPO representative. Bump plug to 500 psi over pump pressure. Drop plug behind good cement. Chase plug with 10 bbls sugar water or as directed by PPO Rep. Record cement to surface on IADC report.
27. Hang casing in minimum tension needed for pack off on wellhead. Close cement head for 8 hours.
28. WOC 8 hours before cutting off per BLM rules.
29. Nipple down BOP's and cut off casing and install 7" 10M x 11" 3M tubing head with 2 x 1-13/16" valves on one side and blind cap and BR plug on other side. Install with a blind flange and needle valve for completions.
30. Clean and jet pits. Release rig.
31. MAKE SURE LOCATION IS CLEAN BEFORE YOU LEAVE!!

REQUIREMENTS

1. All drill pipe and drill collars to be inspected by Spur representative and a total count of all joints on location.
2. Long string to be hydro tested before leaving yard.
3. Check all casing on location. Threads, size and weight.
4. All casing to be torqued to optimal torque.
5. All shoe tracks to be thread locked.
6. Mud Logger will tell what footage to catch samples.
7. Keep bit record and grade bits.
8. Check all float equipment for correct size and threads.
9. Sign and keep copies of field tickets to turn in to office.
10. Notify all State and Federal offices of events and record in morning report. (Date / Time / Name Of Person Talked To).
11. Check and make sure all bond coating and centralizers are in proper places.
12. PPO supervisor to be sure all casing tallies are correctly done.

13. PPO supervisor to check and ensure drill pipe tally is correct.
14. Record release dates of equipment on location.
15. Pre job safety meeting with all companies before job begins.
16. On rig floor when picking up BHA and making up float equipment.
17. Witness all testing and cement jobs.
18. Make sure that everything that is reported on IADC is correct.
19. Make sure all mud is correctly mixed by rig crews.
20. All accidents to be reported to office ASAP and a accident form sent in to office within 24 hours.
21. All trash is off location and lease road is clean at all times.
22. All records are kept as TIGHT HOLE and are not released.
23. Well record is sealed and sent to Artesia Office or is delivered by Spur supervisor to Artesia Office.

VENDOR LIST

<u>COMPANY</u>	<u>SERVICE</u>	<u>CONTACT NAME</u>	<u>CONTACT NUMBER</u>
TBD	Drilling Rig		
TBD	Directional Company		
TBD	Mud		
TBD	Cement		
NA	DST		
TBD	PVT's & Rig Monitor		
TBD	Mud Logging		
TBD	Conductor		
TBD	Closed Loop System		
TBD	Casing Crew & LD Machine		
TBD	Location & Road		
TBD	Stabilizers		
TBD	Float Equipment		
TBD	Open Hole Logging		
TBD	H2S Equipment		
TBD	Location & Trash Trailers		
TBD	Living Quarters		
TBD	Welder		
TBD	Forklift & Trucking		
TBD	Water		
TBD	Rotating Head		

PERSONNEL LIST

TBD, Drilling Foreman
Cell

John Nabors, Engineering/Operations

Office 832-930-8502
Cell 281-904-8811

Ryan Barber, Engineering/Operations

Office 832-930-8502
Cell 832-544-9267

C.J. Lipinski, Geology

Office 832-930-8502
Cell 262-894-2811

Nash Bell, Land

Office 832-930-8502
Cell 512-461-1874



Spur Energy Partners, LLC

Eddy County, NM (NAD 83 - NME)

Dorami 33 Fed Com

#4H

OH

Plan: Plan #3

Standard Plan With Toolface

29 October, 2019

Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	Est RKB=17' @ 3546.00usft
Site:	Dorami 33 Fed Com	MD Reference:	Est RKB=17' @ 3546.00usft
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	WBDS_SQL_2

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:	Dorami 33 Fed Com		
Site Position:		Northing:	587,525.70 usft
From:	Map	Easting:	496,657.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.615075
		Longitude:	-104.478445
		Grid Convergence:	-0.078 °

Well:	#4H					
Well Position	+N/-S	0.00 usft	Northing:	587,485.70 usft	Latitude:	32.614965
	+E/-W	0.00 usft	Easting:	496,657.20 usft	Longitude:	-104.478446
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,529.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/28/2019	7.148	60.246	47,827.86460080

Design:	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/S	+E/W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	270.23

Survey Tool Program	Date	10/29/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	8,566.89	Plan #3 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM

Wellbenders
Standard Plan With Toolface

Company: Spur Energy Partners, LLC		Local Co-ordinate Reference:				Well #4H	
Project: Eddy County, NM (NAD 83 - NME)		TVD Reference:				Est RKB=17' @ 3546.00usft	
Site: Dorami 33 Fed Com		MD Reference:				Est RKB=17' @ 3546.00usft	
Well: #4H		North Reference:				Grid	
Wellbore: OH		Survey Calculation Method:				Minimum Curvature	
Design: Plan #3		Database:				WBDS_SQL_2	

Planned Survey											
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
200.00	0.00	0.00	200.00	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	0.00	0.00	0.000
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000
600.00	2.00	180.42	599.98	-1.75	-0.01	0.01	2.00	2.00	0.00	180.420	0.000
700.00	4.00	180.42	699.84	-6.98	-0.05	0.02	2.00	2.00	0.00	0.000	0.000
800.00	6.00	180.42	799.45	-15.69	-0.12	0.05	2.00	2.00	0.00	0.000	0.000
900.00	8.00	180.42	898.70	-27.88	-0.20	0.09	2.00	2.00	0.00	0.000	0.000
1,000.00	10.00	180.42	997.47	-43.52	-0.32	0.14	2.00	2.00	0.00	0.000	0.000
1,100.00	12.00	180.42	1,095.62	-62.60	-0.46	0.21	2.00	2.00	0.00	0.000	0.000
1,173.49	13.47	180.42	1,167.30	-78.80	-0.58	0.26	2.00	2.00	0.00	0.000	0.000
1,200.00	13.47	180.42	1,193.08	-84.98	-0.62	0.28	0.00	0.00	0.00	0.000	0.000
1,300.00	13.47	180.42	1,290.33	-108.27	-0.79	0.36	0.00	0.00	0.00	0.000	0.000
1,400.00	13.47	180.42	1,387.58	-131.56	-0.96	0.44	0.00	0.00	0.00	0.000	0.000
1,500.00	13.47	180.42	1,484.83	-154.85	-1.14	0.51	0.00	0.00	0.00	0.000	0.000
1,600.00	13.47	180.42	1,582.08	-178.15	-1.31	0.59	0.00	0.00	0.00	0.000	0.000
1,700.00	13.47	180.42	1,679.33	-201.44	-1.48	0.67	0.00	0.00	0.00	0.000	0.000
1,800.00	13.47	180.42	1,776.58	-224.73	-1.65	0.75	0.00	0.00	0.00	0.000	0.000
1,872.69	13.47	180.42	1,847.27	-241.66	-1.77	0.80	0.00	0.00	0.00	0.000	0.000
1,900.00	13.35	187.47	1,873.84	-247.97	-2.20	1.21	6.00	-0.42	25.82	97.478	0.000
1,950.00	13.65	200.28	1,922.47	-259.23	-5.00	3.96	6.00	0.59	25.63	90.618	0.000
2,000.00	14.56	212.04	1,970.97	-270.09	-10.38	9.30	6.00	1.82	23.52	78.156	0.000
2,050.00	15.98	222.10	2,019.21	-280.53	-18.33	17.21	6.00	2.84	20.12	66.750	0.000
2,100.00	17.78	230.37	2,067.06	-290.51	-28.83	27.66	6.00	3.61	16.53	57.042	0.000
2,150.00	19.87	237.06	2,114.39	-300.00	-41.84	40.64	6.00	4.18	13.37	49.129	0.000



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local/Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	Est RKB=17' @ 3546.00usft
Site:	Dorami 33 Fed Com	MD Reference:	Est RKB=17' @ 3546.00usft
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	WBDS_SQL_2

Planned Survey:											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
2,200.00	22.16	242.47	2,161.06	-308.98	-57.34	56.10	6.00	4.58	10.82	42.799	
2,250.00	24.60	246.88	2,206.96	-317.43	-75.28	74.01	6.00	4.87	8.83	37.749	
2,300.00	27.14	250.53	2,251.95	-325.32	-95.61	94.30	6.00	5.09	7.30	33.696	
2,350.00	29.77	253.59	2,295.90	-332.63	-118.27	116.94	6.00	5.25	6.12	30.412	
2,400.00	32.45	256.19	2,338.71	-339.34	-143.21	141.85	6.00	5.37	5.20	27.722	
2,450.00	35.18	258.43	2,380.25	-345.44	-170.36	168.97	6.00	5.46	4.48	25.494	
2,500.00	37.94	260.38	2,420.41	-350.90	-199.63	198.22	6.00	5.53	3.91	23.632	
2,550.00	40.74	262.11	2,459.08	-355.70	-230.95	229.52	6.00	5.59	3.45	22.061	
2,600.00	43.55	263.65	2,496.14	-359.85	-264.24	262.80	6.00	5.63	3.08	20.726	
2,650.00	46.39	265.04	2,531.51	-363.32	-299.40	297.94	6.00	5.67	2.78	19.583	
2,700.00	49.24	266.30	2,565.09	-366.11	-336.34	334.87	6.00	5.70	2.53	18.601	
2,750.00	52.10	267.46	2,596.77	-368.21	-374.96	373.48	6.00	5.73	2.32	17.752	
2,800.00	54.98	268.53	2,626.48	-369.61	-415.14	413.65	6.00	5.75	2.14	17.018	
2,850.00	57.86	269.53	2,654.14	-370.30	-456.79	455.30	6.00	5.76	2.00	16.381	
2,887.05	60.00	270.23	2,673.26	-370.37	-488.52	487.03	6.00	5.78	1.89	15.828	
2,900.00	60.00	270.23	2,679.73	-370.32	-499.73	498.24	0.00	0.00	0.00	0.000	
3,000.00	60.00	270.23	2,729.73	-369.97	-586.33	584.84	0.00	0.00	0.00	0.000	
3,087.05	60.00	270.23	2,773.26	-369.67	-661.72	660.23	0.00	0.00	0.00	0.000	
3,100.00	61.29	270.23	2,779.61	-369.63	-673.01	671.52	10.00	10.00	0.00	0.000	
3,150.00	66.29	270.23	2,801.68	-369.45	-717.85	716.37	10.00	10.00	0.00	0.000	
3,200.00	71.29	270.23	2,819.76	-369.26	-764.45	762.97	10.00	10.00	0.00	0.000	
3,250.00	76.29	270.23	2,833.71	-369.07	-812.45	810.96	10.00	10.00	0.00	0.000	
3,300.00	81.29	270.23	2,843.42	-368.87	-861.48	860.00	10.00	10.00	0.00	0.000	
3,350.00	86.29	270.23	2,848.82	-368.67	-911.17	909.69	10.00	10.00	0.00	0.000	
3,392.05	90.50	270.23	2,850.00	-368.50	-953.20	951.71	10.00	10.00	0.00	0.000	
3,400.00	90.50	270.23	2,849.93	-368.47	-961.15	959.66	0.00	0.00	0.00	0.000	
3,500.00	90.50	270.23	2,849.06	-368.07	-1,061.14	1,059.66	0.00	0.00	0.00	0.000	



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	Est RKB=17' @ 3546.00usft
Site:	Dorami 33 Fed Com	MD Reference:	Est RKB=17' @ 3546.00usft
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	T Face (°)	
3,600.00	90.50	270.23	2,848.19	-367.66	-1,161.14	1,159.65	0.00	0.00	0.00	0.00	
3,700.00	90.50	270.23	2,847.31	-367.26	-1,261.13	1,259.65	0.00	0.00	0.00	0.00	
3,800.00	90.50	270.23	2,846.44	-366.86	-1,361.13	1,359.65	0.00	0.00	0.00	0.00	
3,900.00	90.50	270.23	2,845.57	-366.46	-1,461.12	1,459.64	0.00	0.00	0.00	0.00	
4,000.00	90.50	270.23	2,844.69	-366.06	-1,561.12	1,559.64	0.00	0.00	0.00	0.00	
4,100.00	90.50	270.23	2,843.82	-365.65	-1,661.11	1,659.63	0.00	0.00	0.00	0.00	
4,200.00	90.50	270.23	2,842.95	-365.25	-1,761.11	1,759.63	0.00	0.00	0.00	0.00	
4,300.00	90.50	270.23	2,842.08	-364.85	-1,861.11	1,859.63	0.00	0.00	0.00	0.00	
4,400.00	90.50	270.23	2,841.20	-364.45	-1,961.10	1,959.62	0.00	0.00	0.00	0.00	
4,500.00	90.50	270.23	2,840.33	-364.05	-2,061.10	2,059.62	0.00	0.00	0.00	0.00	
4,600.00	90.50	270.23	2,839.46	-363.64	-2,161.09	2,159.61	0.00	0.00	0.00	0.00	
4,700.00	90.50	270.23	2,838.59	-363.24	-2,261.09	2,259.61	0.00	0.00	0.00	0.00	
4,800.00	90.50	270.23	2,837.71	-362.84	-2,361.08	2,359.61	0.00	0.00	0.00	0.00	
4,900.00	90.50	270.23	2,836.84	-362.44	-2,461.08	2,459.60	0.00	0.00	0.00	0.00	
5,000.00	90.50	270.23	2,835.97	-362.04	-2,561.07	2,559.60	0.00	0.00	0.00	0.00	
5,100.00	90.50	270.23	2,835.10	-361.63	-2,661.07	2,659.60	0.00	0.00	0.00	0.00	
5,200.00	90.50	270.23	2,834.22	-361.23	-2,761.06	2,759.59	0.00	0.00	0.00	0.00	
5,300.00	90.50	270.23	2,833.35	-360.83	-2,861.06	2,859.59	0.00	0.00	0.00	0.00	
5,400.00	90.50	270.23	2,832.48	-360.43	-2,961.05	2,959.58	0.00	0.00	0.00	0.00	
5,500.00	90.50	270.23	2,831.60	-360.03	-3,061.05	3,059.58	0.00	0.00	0.00	0.00	
5,600.00	90.50	270.23	2,830.73	-359.63	-3,161.05	3,159.58	0.00	0.00	0.00	0.00	
5,700.00	90.50	270.23	2,829.86	-359.22	-3,261.04	3,259.57	0.00	0.00	0.00	0.00	
5,800.00	90.50	270.23	2,828.99	-358.82	-3,361.04	3,359.57	0.00	0.00	0.00	0.00	
5,900.00	90.50	270.23	2,828.11	-358.42	-3,461.03	3,459.57	0.00	0.00	0.00	0.00	
6,000.00	90.50	270.23	2,827.24	-358.02	-3,561.03	3,559.56	0.00	0.00	0.00	0.00	
6,100.00	90.50	270.23	2,826.37	-357.62	-3,661.02	3,659.56	0.00	0.00	0.00	0.00	
6,200.00	90.50	270.23	2,825.50	-357.21	-3,761.02	3,759.55	0.00	0.00	0.00	0.00	



Wellbenders

Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	Est RKB=17' @ 3546.00usft
Site:	Dorami 33 Fed Com	MD Reference:	Est RKB=17' @ 3546.00usft
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	WBDS_SQL_2

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)	
6,300.00	90.50	270.23	2,824.62	-356.81	-3,861.01	3,859.55	0.00	0.00	0.00		0.000
6,400.00	90.50	270.23	2,823.75	-356.41	-3,961.01	3,959.55	0.00	0.00	0.00		0.000
6,500.00	90.50	270.23	2,822.88	-356.01	-4,061.00	4,059.54	0.00	0.00	0.00		0.000
6,600.00	90.50	270.23	2,822.01	-355.61	-4,161.00	4,159.54	0.00	0.00	0.00		0.000
6,700.00	90.50	270.23	2,821.13	-355.20	-4,260.99	4,259.53	0.00	0.00	0.00		0.000
6,800.00	90.50	270.23	2,820.26	-354.80	-4,360.99	4,359.53	0.00	0.00	0.00		0.000
6,900.00	90.50	270.23	2,819.39	-354.40	-4,460.99	4,459.53	0.00	0.00	0.00		0.000
7,000.00	90.50	270.23	2,818.52	-354.00	-4,560.98	4,559.52	0.00	0.00	0.00		0.000
7,100.00	90.50	270.23	2,817.64	-353.60	-4,660.98	4,659.52	0.00	0.00	0.00		0.000
7,200.00	90.50	270.23	2,816.77	-353.19	-4,760.97	4,759.52	0.00	0.00	0.00		0.000
7,300.00	90.50	270.23	2,815.90	-352.79	-4,860.97	4,859.51	0.00	0.00	0.00		0.000
7,400.00	90.50	270.23	2,815.02	-352.39	-4,960.96	4,959.51	0.00	0.00	0.00		0.000
7,500.00	90.50	270.23	2,814.15	-351.99	-5,060.96	5,059.50	0.00	0.00	0.00		0.000
7,600.00	90.50	270.23	2,813.28	-351.59	-5,160.95	5,159.50	0.00	0.00	0.00		0.000
7,700.00	90.50	270.23	2,812.41	-351.18	-5,260.95	5,259.50	0.00	0.00	0.00		0.000
7,800.00	90.50	270.23	2,811.53	-350.78	-5,360.94	5,359.49	0.00	0.00	0.00		0.000
7,900.00	90.50	270.23	2,810.66	-350.38	-5,460.94	5,459.49	0.00	0.00	0.00		0.000
8,000.00	90.50	270.23	2,809.79	-349.98	-5,560.93	5,559.49	0.00	0.00	0.00		0.000
8,100.00	90.50	270.23	2,808.92	-349.58	-5,660.93	5,659.48	0.00	0.00	0.00		0.000
8,200.00	90.50	270.23	2,808.04	-349.17	-5,760.93	5,759.48	0.00	0.00	0.00		0.000
8,300.00	90.50	270.23	2,807.17	-348.77	-5,860.92	5,859.47	0.00	0.00	0.00		0.000
8,400.00	90.50	270.23	2,806.30	-348.37	-5,960.92	5,959.47	0.00	0.00	0.00		0.000
8,491.89	90.50	270.23	2,805.50	-348.00	-6,052.80	6,051.35	0.00	0.00	0.00		0.000
8,500.00	90.50	270.23	2,805.43	-347.97	-6,060.91	6,059.47	0.00	0.00	0.00		0.000
8,566.89	90.50	270.23	2,804.84	-347.70	-6,127.80	6,126.35	0.00	0.00	0.00		0.000



Wellbenders
Standard Plan With Toolface

Company:	Spur Energy Partners, LLC	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM (NAD 83 - NME)	TVD Reference:	Est RKB=17' @ 3546.00usft
Site:	Dorami 33 Fed Com	MD Reference:	Est RKB=17' @ 3546.00usft
Well:	#4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	WBDS_SQL_2

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Spur Energy Partners, LLC

Well: Dorami 33 Federal Com #4H

Location: **SHL** Section 34 T19S R25E 1910' FSL 850' FWL
Lat: 32.614965° N Long: -104.478446°W
BHL Section 33 T19S R25E 1531.2' FSL 25' FWL
Lat: 32.613985° N Long: -104.498346°W

County: Eddy

State: New Mexico

Rig: TBD

Spud Date: TBD

AFE Number: TBD

True Vertical Depth: 2,805'
Total Measured Depth: 8,567'

Elevation: GL = 3529' KB = 3546'

Directions: FROM THE INTERSECTION OF U.S. HWY. 285 AND CO. RD. 23 (ROCK DAISY RD.) GO WEST ON CO. RD. 23 APPROX. 3.9 MILES TO CALICHE LEASE ROAD, TURN LEFT AND GO SOUTHEAST APPROX. 0.2 MILES TO PROPOSED ACCESS ROAD. FOLLOW SIGNS TO LOCATION.

Prepared By: Ryan Barber

Operations Manager: John Nabors

Engineering: Ryan Barber

Exploration: C.J. Lipinski

Land: Nash Bell