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

Sundry Print Report

11/18/2021

Well Name: HT 18 FEDERAL

Well Location: T17S / R32E / SEC 7 / LOT 4 /

County or Parish/State:

Well Number: 12H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC060329

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549373

Well Status: Approved Application for Permit to Drill

Operator: SPUR ENERGY PARTNERS LLC

Notice of Intent

Sundry ID: 2643106

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 11/04/2021

Time Sundry Submitted: 03:34

Date proposed operation will begin: 12/09/2021

Procedure Description: Spur Energy Partners LLC respectfully requests to shift this wellbore 430 feet to the east. Current: FTP: 100' FNL 760' FWL LTP: 100' FSL 760' FWL BHL: 50' FSL 760' FWL Proposed: FTP: 100' FNL 1190' FWL LTP: 100' FSL 1190' FWL BHL: 50' FSL 1190' FWL Surface hole location will remain the same.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

HT18Fd12H_Updated_Drill_Plan_20211104153409.pdf

HT18Fd12H_Updated_Direct_Plot_20211104150635.pdf

HT18Fd12H_Updated_C102_20211104150635.pdf

HT18Fd12H_Updated_Direct_Plan_20211104150635.pdf

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Unit or CA Name:

Unit or CA Number:

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Operator: SPUR ENERGY PARTNERS LLC

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: SARAH CHAPMAN

Signed on: NOV 04, 2021 03:34 PM

Name: SPUR ENERGY PARTNERS LLC

Title: Regulatory Directory

Street Address: 9655 KATY FREEWAY, SUITE 500

City: Houston **State:** TX

Phone: (832) 930-8613

Email address: SCHAPMAN@SPUREPLLC.COM

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 11/18/2021

Signature: Chris Walls

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
30-025-49373	44500	MALJAMAR; YESO, WEST

4 Property Code	5 Property Name	6 Well Number
325854	HT 18 FEDERAL	12H

7 OGRID NO.	8 Operator Name	9 Elevation
328947	SPUR ENERGY PARTNERS LLC.	3973

10 Surface Location

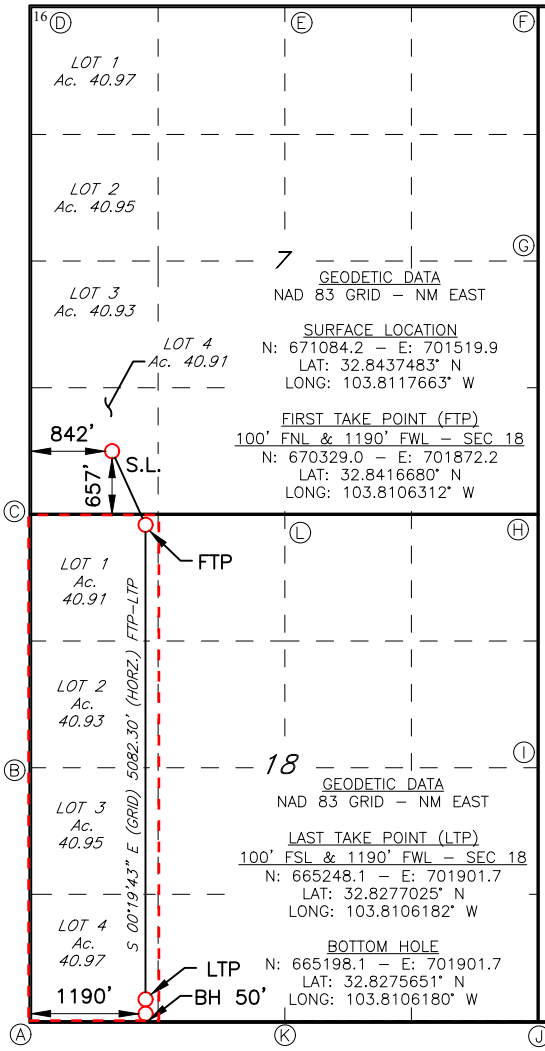
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
4	7	17S	32E		657	SOUTH	842	WEST	LEA

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
4	18	17S	32E		50	SOUTH	1190	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
160			

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.



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION
N: 671084.2 – E: 701519.9
LAT: 32.8437483° N
LONG: 103.8117663° W

FIRST TAKE POINT (FTP)
100' FNL & 1190' FWL – SEC 18
N: 670329.0 – E: 701872.2
LAT: 32.8416680° N
LONG: 103.8106312° W

GEODETIC DATA
NAD 83 GRID – NM EAST

LAST TAKE POINT (LTP)
100' FSL & 1190' FWL – SEC 18
N: 665248.1 – E: 701901.7
LAT: 32.8277025° N
LONG: 103.8106182° W

BOTTOM HOLE
N: 665198.1 – E: 701901.7
LAT: 32.8275651° N
LONG: 103.8106180° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1913"
N: 665144.3 – E: 700712.3

B: FOUND BRASS CAP "1913"
N: 667784.2 – E: 700696.1

C: FOUND BRASS CAP "1913"
N: 670424.7 – E: 700682.0

D: FOUND BRASS CAP "1913"
N: 675704.9 – E: 700651.5

E: FOUND BRASS CAP "1913"
N: 675715.0 – E: 703323.9

F: FOUND 1 1/2" IRON PIPE
N: 675723.3 – E: 705965.0

G: FOUND BRASS CAP "1913"
N: 673083.7 – E: 705979.1

H: FOUND BRASS CAP "1913"
N: 670449.0 – E: 705989.7

I: FOUND BRASS CAP "1913"
N: 667802.7 – E: 706007.8

J: FOUND BRASS CAP "1913"
N: 665163.9 – E: 706022.8

K: FOUND BRASS CAP "1913"
N: 665152.9 – E: 703384.0

L: FOUND BRASS CAP "1913"
N: 670434.4 – E: 703353.6

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 11/02/2021
Signature Date

SARAH CHAPMAN
Printed Name

SCHAPMAN@SPURENERGY.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.

11-19-2020
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

19680
Certificate Number

REV:FTP,LTP, & BH MOVE 10/21/21

LS20110685R

Spur Energy Partners, LLC

Lea County, NM (Nad-83/ NME)
HT 18 Federal
#13H

OH

Plan: PLAN #3

Standard Planning Report

04 November, 2021

SPUR ENERGY PARTNERS

Planning Report

WELLBENDERS DIRECTIONAL SERVICES

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #13H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3993.00usft
Project:	Lea County, NM (Nad-83/ NME)	**MD Reference:**	RKB = 20' @ 3993.00usft
Site:	HT 18 Federal	**North Reference:**	Grid
Well:	#13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

Project Lea 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 HT 18 Federal

Site Position:		**Northing:**	671,004.40 usft	**Latitude:**	32.843528
From:	Map	**Easting:**	701,576.50 usft	**Longitude:**	-103.811584
Position Uncertainty:	0.00 usft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.283 °

Well #13H

Well Position	**+N/-S**	70.90 usft	**Northing:**	671,075.30 usft	**Latitude:**	32.843724
	+E/-W	-74.50 usft	**Easting:**	701,502.00 usft	**Longitude:**	-103.811825
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,973.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	11/15/2021	6.657	60.413	47,787.35621841

Design PLAN #3

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	179.67

Plan Survey Tool Program **Date** 11/4/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,895.52	PLAN #3 (OH)	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	
437.36	2.75	320.76	437.31	2.55	-2.08	2.00	2.00	0.00	320.757	
5,236.27	2.75	320.76	5,230.70	180.69	-147.59	0.00	0.00	0.00	0.000	
6,272.13	60.00	179.67	6,093.29	-296.34	-162.19	6.00	5.53	-13.62	-142.029	
6,472.13	60.00	179.67	6,193.29	-469.54	-161.20	0.00	0.00	0.00	0.000	
6,764.31	89.22	179.67	6,270.00	-748.20	-159.60	10.00	10.00	0.00	0.000	HT 18 Fed 13H: FT
11,845.57	89.22	179.67	6,339.32	-5,828.90	-130.49	0.00	0.00	0.00	0.000	HT 18 Fed 13H: LTI
11,895.58	89.22	179.67	6,340.00	-5,878.90	-130.20	0.00	0.00	0.00	0.000	HT 18 Fed 13H: PB

SPUR ENERGY PARTNERS

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Site:	HT 18 Federal	**North Reference:**	Grid
Well:	#13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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	320.76	399.98	1.35	-1.10	-1.36	2.00	2.00	0.00
437.36	2.75	320.76	437.31	2.55	-2.08	-2.56	2.00	2.00	0.00
500.00	2.75	320.76	499.88	4.88	-3.98	-4.90	0.00	0.00	0.00
600.00	2.75	320.76	599.76	8.59	-7.01	-8.63	0.00	0.00	0.00
700.00	2.75	320.76	699.65	12.30	-10.05	-12.36	0.00	0.00	0.00
800.00	2.75	320.76	799.53	16.01	-13.08	-16.09	0.00	0.00	0.00
900.00	2.75	320.76	899.42	19.72	-16.11	-19.82	0.00	0.00	0.00
1,000.00	2.75	320.76	999.30	23.44	-19.14	-23.55	0.00	0.00	0.00
1,100.00	2.75	320.76	1,099.19	27.15	-22.18	-27.27	0.00	0.00	0.00
1,200.00	2.75	320.76	1,199.07	30.86	-25.21	-31.00	0.00	0.00	0.00
1,300.00	2.75	320.76	1,298.96	34.57	-28.24	-34.73	0.00	0.00	0.00
1,400.00	2.75	320.76	1,398.84	38.28	-31.27	-38.46	0.00	0.00	0.00
1,500.00	2.75	320.76	1,498.73	42.00	-34.30	-42.19	0.00	0.00	0.00
1,600.00	2.75	320.76	1,598.61	45.71	-37.34	-45.92	0.00	0.00	0.00
1,700.00	2.75	320.76	1,698.50	49.42	-40.37	-49.65	0.00	0.00	0.00
1,800.00	2.75	320.76	1,798.38	53.13	-43.40	-53.38	0.00	0.00	0.00
1,900.00	2.75	320.76	1,898.27	56.84	-46.43	-57.11	0.00	0.00	0.00
2,000.00	2.75	320.76	1,998.15	60.56	-49.47	-60.84	0.00	0.00	0.00
2,100.00	2.75	320.76	2,098.04	64.27	-52.50	-64.57	0.00	0.00	0.00
2,200.00	2.75	320.76	2,197.92	67.98	-55.53	-68.30	0.00	0.00	0.00
2,300.00	2.75	320.76	2,297.81	71.69	-58.56	-72.03	0.00	0.00	0.00
2,400.00	2.75	320.76	2,397.69	75.40	-61.59	-75.76	0.00	0.00	0.00
2,500.00	2.75	320.76	2,497.58	79.12	-64.63	-79.49	0.00	0.00	0.00
2,600.00	2.75	320.76	2,597.46	82.83	-67.66	-83.22	0.00	0.00	0.00
2,700.00	2.75	320.76	2,697.35	86.54	-70.69	-86.95	0.00	0.00	0.00
2,800.00	2.75	320.76	2,797.23	90.25	-73.72	-90.68	0.00	0.00	0.00
2,900.00	2.75	320.76	2,897.12	93.97	-76.75	-94.41	0.00	0.00	0.00
3,000.00	2.75	320.76	2,997.00	97.68	-79.79	-98.14	0.00	0.00	0.00
3,100.00	2.75	320.76	3,096.89	101.39	-82.82	-101.86	0.00	0.00	0.00
3,200.00	2.75	320.76	3,196.77	105.10	-85.85	-105.59	0.00	0.00	0.00
3,300.00	2.75	320.76	3,296.66	108.81	-88.88	-109.32	0.00	0.00	0.00
3,400.00	2.75	320.76	3,396.54	112.53	-91.92	-113.05	0.00	0.00	0.00
3,500.00	2.75	320.76	3,496.43	116.24	-94.95	-116.78	0.00	0.00	0.00
3,600.00	2.75	320.76	3,596.31	119.95	-97.98	-120.51	0.00	0.00	0.00
3,700.00	2.75	320.76	3,696.20	123.66	-101.01	-124.24	0.00	0.00	0.00
3,800.00	2.75	320.76	3,796.08	127.37	-104.04	-127.97	0.00	0.00	0.00
3,900.00	2.75	320.76	3,895.97	131.09	-107.08	-131.70	0.00	0.00	0.00
4,000.00	2.75	320.76	3,995.85	134.80	-110.11	-135.43	0.00	0.00	0.00
4,100.00	2.75	320.76	4,095.74	138.51	-113.14	-139.16	0.00	0.00	0.00
4,200.00	2.75	320.76	4,195.62	142.22	-116.17	-142.89	0.00	0.00	0.00
4,300.00	2.75	320.76	4,295.51	145.93	-119.21	-146.62	0.00	0.00	0.00
4,400.00	2.75	320.76	4,395.39	149.65	-122.24	-150.35	0.00	0.00	0.00
4,500.00	2.75	320.76	4,495.28	153.36	-125.27	-154.08	0.00	0.00	0.00
4,600.00	2.75	320.76	4,595.16	157.07	-128.30	-157.81	0.00	0.00	0.00
4,700.00	2.75	320.76	4,695.05	160.78	-131.33	-161.54	0.00	0.00	0.00
4,800.00	2.75	320.76	4,794.93	164.49	-134.37	-165.27	0.00	0.00	0.00
4,900.00	2.75	320.76	4,894.82	168.21	-137.40	-169.00	0.00	0.00	0.00
5,000.00	2.75	320.76	4,994.70	171.92	-140.43	-172.72	0.00	0.00	0.00
5,100.00	2.75	320.76	5,094.59	175.63	-143.46	-176.45	0.00	0.00	0.00
5,200.00	2.75	320.76	5,194.47	179.34	-146.50	-180.18	0.00	0.00	0.00

SPUR ENERGY PARTNERS

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Design:	PLAN #3		

Planned Survey

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5,236.27	2.75	320.76	5,230.70	180.69	-147.59	-181.54	0.00	0.00	0.00
5,250.00	2.16	307.17	5,244.42	181.10	-148.01	-181.95	6.00	-4.29	-98.96
5,300.00	2.37	224.24	5,294.39	180.93	-149.48	-181.79	6.00	0.42	-165.86
5,350.00	4.95	198.59	5,344.29	178.14	-150.89	-179.01	6.00	5.17	-51.28
5,400.00	7.84	191.07	5,393.97	172.75	-152.23	-173.62	6.00	5.77	-15.06
5,450.00	10.79	187.60	5,443.31	164.76	-153.51	-165.64	6.00	5.90	-6.93
5,500.00	13.76	185.62	5,492.16	154.20	-154.71	-155.09	6.00	5.94	-3.97
5,550.00	16.74	184.32	5,540.39	141.10	-155.83	-141.99	6.00	5.96	-2.58
5,600.00	19.73	183.42	5,587.88	125.49	-156.88	-126.39	6.00	5.97	-1.82
5,650.00	22.72	182.74	5,634.48	107.42	-157.84	-108.33	6.00	5.98	-1.36
5,700.00	25.71	182.21	5,680.08	86.94	-158.72	-87.85	6.00	5.98	-1.06
5,750.00	28.70	181.78	5,724.54	64.09	-159.51	-65.01	6.00	5.99	-0.85
5,800.00	31.70	181.43	5,767.75	38.95	-160.22	-39.88	6.00	5.99	-0.70
5,850.00	34.69	181.14	5,809.59	11.59	-160.83	-12.51	6.00	5.99	-0.59
5,900.00	37.69	180.88	5,849.93	-17.93	-161.35	17.00	6.00	5.99	-0.51
5,950.00	40.69	180.66	5,888.68	-49.52	-161.77	48.58	6.00	5.99	-0.44
6,000.00	43.68	180.47	5,925.73	-83.09	-162.10	82.15	6.00	5.99	-0.39
6,050.00	46.68	180.29	5,960.97	-118.55	-162.33	117.61	6.00	5.99	-0.35
6,100.00	49.68	180.13	5,994.30	-155.81	-162.47	154.87	6.00	6.00	-0.32
6,150.00	52.68	179.98	6,025.64	-194.76	-162.51	193.82	6.00	6.00	-0.29
6,200.00	55.67	179.85	6,054.90	-235.29	-162.45	234.35	6.00	6.00	-0.27
6,250.00	58.67	179.72	6,082.01	-277.30	-162.29	276.37	6.00	6.00	-0.25
6,272.13	60.00	179.67	6,093.29	-296.34	-162.19	295.40	6.00	6.00	-0.24
6,300.00	60.00	179.67	6,107.23	-320.48	-162.05	319.54	0.00	0.00	0.00
6,400.00	60.00	179.67	6,157.23	-407.08	-161.55	406.14	0.00	0.00	0.00
6,472.13	60.00	179.67	6,193.29	-469.54	-161.20	468.61	0.00	0.00	0.00
6,500.00	62.79	179.67	6,206.63	-494.01	-161.06	493.07	10.00	10.00	0.00
6,550.00	67.79	179.67	6,227.53	-539.41	-160.80	538.48	10.00	10.00	0.00
6,600.00	72.79	179.67	6,244.39	-586.47	-160.53	585.53	10.00	10.00	0.00
6,650.00	77.79	179.67	6,257.09	-634.81	-160.25	633.88	10.00	10.00	0.00
6,700.00	82.79	179.67	6,265.52	-684.08	-159.97	683.15	10.00	10.00	0.00
6,750.00	87.79	179.67	6,269.63	-733.89	-159.68	732.96	10.00	10.00	0.00
6,764.31	89.22	179.67	6,270.00	-748.20	-159.60	747.27	10.00	10.00	0.00
6,800.00	89.22	179.67	6,270.49	-783.88	-159.40	782.95	0.00	0.00	0.00
6,900.00	89.22	179.67	6,271.85	-883.87	-158.82	882.94	0.00	0.00	0.00
7,000.00	89.22	179.67	6,273.22	-983.86	-158.25	982.93	0.00	0.00	0.00
7,100.00	89.22	179.67	6,274.58	-1,083.85	-157.68	1,082.92	0.00	0.00	0.00
7,200.00	89.22	179.67	6,275.94	-1,183.84	-157.10	1,182.91	0.00	0.00	0.00
7,300.00	89.22	179.67	6,277.31	-1,283.83	-156.53	1,282.91	0.00	0.00	0.00
7,400.00	89.22	179.67	6,278.67	-1,383.82	-155.96	1,382.90	0.00	0.00	0.00
7,500.00	89.22	179.67	6,280.04	-1,483.81	-155.38	1,482.89	0.00	0.00	0.00
7,600.00	89.22	179.67	6,281.40	-1,583.80	-154.81	1,582.88	0.00	0.00	0.00
7,700.00	89.22	179.67	6,282.76	-1,683.78	-154.24	1,682.87	0.00	0.00	0.00
7,800.00	89.22	179.67	6,284.13	-1,783.77	-153.67	1,782.86	0.00	0.00	0.00
7,900.00	89.22	179.67	6,285.49	-1,883.76	-153.09	1,882.85	0.00	0.00	0.00
8,000.00	89.22	179.67	6,286.86	-1,983.75	-152.52	1,982.84	0.00	0.00	0.00
8,100.00	89.22	179.67	6,288.22	-2,083.74	-151.95	2,082.83	0.00	0.00	0.00
8,200.00	89.22	179.67	6,289.59	-2,183.73	-151.37	2,182.82	0.00	0.00	0.00
8,300.00	89.22	179.67	6,290.95	-2,283.72	-150.80	2,282.81	0.00	0.00	0.00
8,400.00	89.22	179.67	6,292.31	-2,383.71	-150.23	2,382.80	0.00	0.00	0.00
8,500.00	89.22	179.67	6,293.68	-2,483.70	-149.66	2,482.79	0.00	0.00	0.00
8,600.00	89.22	179.67	6,295.04	-2,583.69	-149.08	2,582.78	0.00	0.00	0.00
8,700.00	89.22	179.67	6,296.41	-2,683.67	-148.51	2,682.78	0.00	0.00	0.00
8,800.00	89.22	179.67	6,297.77	-2,783.66	-147.94	2,782.77	0.00	0.00	0.00

SPUR ENERGY PARTNERS

Planning Report

WELLBENDERS DIRECTIONAL SERVICES

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #13H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3993.00usft
Project:	Lea County, NM (Nad-83/ NME)	**MD Reference:**	RKB = 20' @ 3993.00usft
Site:	HT 18 Federal	**North Reference:**	Grid
Well:	#13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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)
8,900.00	89.22	179.67	6,299.13	-2,883.65	-147.36	2,882.76	0.00	0.00	0.00
9,000.00	89.22	179.67	6,300.50	-2,983.64	-146.79	2,982.75	0.00	0.00	0.00
9,100.00	89.22	179.67	6,301.86	-3,083.63	-146.22	3,082.74	0.00	0.00	0.00
9,200.00	89.22	179.67	6,303.23	-3,183.62	-145.64	3,182.73	0.00	0.00	0.00
9,300.00	89.22	179.67	6,304.59	-3,283.61	-145.07	3,282.72	0.00	0.00	0.00
9,400.00	89.22	179.67	6,305.96	-3,383.60	-144.50	3,382.71	0.00	0.00	0.00
9,500.00	89.22	179.67	6,307.32	-3,483.59	-143.93	3,482.70	0.00	0.00	0.00
9,600.00	89.22	179.67	6,308.68	-3,583.58	-143.35	3,582.69	0.00	0.00	0.00
9,700.00	89.22	179.67	6,310.05	-3,683.57	-142.78	3,682.68	0.00	0.00	0.00
9,800.00	89.22	179.67	6,311.41	-3,783.55	-142.21	3,782.67	0.00	0.00	0.00
9,900.00	89.22	179.67	6,312.78	-3,883.54	-141.63	3,882.66	0.00	0.00	0.00
10,000.00	89.22	179.67	6,314.14	-3,983.53	-141.06	3,982.65	0.00	0.00	0.00
10,100.00	89.22	179.67	6,315.51	-4,083.52	-140.49	4,082.64	0.00	0.00	0.00
10,200.00	89.22	179.67	6,316.87	-4,183.51	-139.91	4,182.64	0.00	0.00	0.00
10,300.00	89.22	179.67	6,318.23	-4,283.50	-139.34	4,282.63	0.00	0.00	0.00
10,400.00	89.22	179.67	6,319.60	-4,383.49	-138.77	4,382.62	0.00	0.00	0.00
10,500.00	89.22	179.67	6,320.96	-4,483.48	-138.20	4,482.61	0.00	0.00	0.00
10,600.00	89.22	179.67	6,322.33	-4,583.47	-137.62	4,582.60	0.00	0.00	0.00
10,700.00	89.22	179.67	6,323.69	-4,683.46	-137.05	4,682.59	0.00	0.00	0.00
10,800.00	89.22	179.67	6,325.05	-4,783.45	-136.48	4,782.58	0.00	0.00	0.00
10,900.00	89.22	179.67	6,326.42	-4,883.43	-135.90	4,882.57	0.00	0.00	0.00
11,000.00	89.22	179.67	6,327.78	-4,983.42	-135.33	4,982.56	0.00	0.00	0.00
11,100.00	89.22	179.67	6,329.15	-5,083.41	-134.76	5,082.55	0.00	0.00	0.00
11,200.00	89.22	179.67	6,330.51	-5,183.40	-134.19	5,182.54	0.00	0.00	0.00
11,300.00	89.22	179.67	6,331.88	-5,283.39	-133.61	5,282.53	0.00	0.00	0.00
11,400.00	89.22	179.67	6,333.24	-5,383.38	-133.04	5,382.52	0.00	0.00	0.00
11,500.00	89.22	179.67	6,334.60	-5,483.37	-132.47	5,482.51	0.00	0.00	0.00
11,600.00	89.22	179.67	6,335.97	-5,583.36	-131.89	5,582.51	0.00	0.00	0.00
11,700.00	89.22	179.67	6,337.33	-5,683.35	-131.32	5,682.50	0.00	0.00	0.00
11,800.00	89.22	179.67	6,338.70	-5,783.34	-130.75	5,782.49	0.00	0.00	0.00
11,845.57	89.22	179.67	6,339.32	-5,828.90	-130.49	5,828.05	0.00	0.00	0.00
11,895.58	89.22	179.67	6,340.00	-5,878.90	-130.20	5,878.05	0.00	0.00	0.00

Planning Report

Database:	WBDS_SQL_2	**Local Co-ordinate Reference:**	Well #13H
Company:	Spur Energy Partners, LLC	**TVD Reference:**	RKB = 20' @ 3993.00usft
Project:	Lea County, NM (Nad-83/ NME)	**MD Reference:**	RKB = 20' @ 3993.00usft
Site:	HT 18 Federal	**North Reference:**	Grid
Well:	#13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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
HT 18 Fed 13H: SHL (- plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	671,075.30	701,502.00	32.843724	-103.811825
HT 18 Fed 13H: KOP - plan hits target center - Point	0.00	0.00	5,230.70	180.69	-147.59	671,255.98	701,354.40	32.844223	-103.812303
HT 18 Fed 13H: FTP (- plan hits target center - Point	0.00	0.00	6,270.00	-748.20	-159.60	670,327.10	701,342.40	32.841670	-103.812357
HT 18 Fed 13H: LTP (- plan misses target center by 0.01usft at 11845.57usft MD (6339.32 TVD, -5828.90 N, -130.49 E) - Point	0.00	0.01	6,339.32	-5,828.90	-130.50	665,246.40	701,371.50	32.827705	-103.812343
HT 18 Fed 13H: PBHl - plan hits target center - Point	0.00	0.01	6,340.00	-5,878.90	-130.20	665,196.40	701,371.80	32.827568	-103.812343

Spur Energy Partners LLC – HT 18 Federal 12H - Sundry

1. Geologic Formations

TVD of Target	5,575'
MD at TD	11,191'

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
San Andres Lower	3785'	Dolomite, Limestone	Natural Gas, Oil
Glorieta	4215'	Dolomite, Siltstone	Natural Gas, Oil
Yeso	4300'	Dolomite	Natural Gas, Oil

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

2. Casing Program

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

Primary Plan:

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	5850	7	32	L-80	BK-HT	1.125	1.2	1.4	1.4
8.75	5850	11191	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 – HT 18 Federal 12H - Sundry

	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?	
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	100%
Production (Lead)	0	4850	100%
Production (Tail)	4850	11191	25%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface Tail	429	13.2	1.87	9.92	6:59	Clas C Premium Plus Cement
Intermediate (Lead)	69	12	2.4	13.48	8:12	Clas C Premium Plus Cement
Intermediate (Tail)	295	13.2	1.87	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	764	11.4	2.42	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1208	13.2	1.56	9.81	N/A	Clas C Premium Plus Cement

Spur Energy Partners LLC – HT 18 Federal 12H - Sundry

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	2581 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	125°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 follows:

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	9.0-10.0	32-36	N/C
1300	11191	Brine	9.0-10.0	32-36	N/C

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

Spur Energy Partners LLC – HT 18 Federal 12H - Sundry

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: 1094.7 bbls**.**

Spur Energy Partners LLC – HT 18 Federal 12H - Sundry

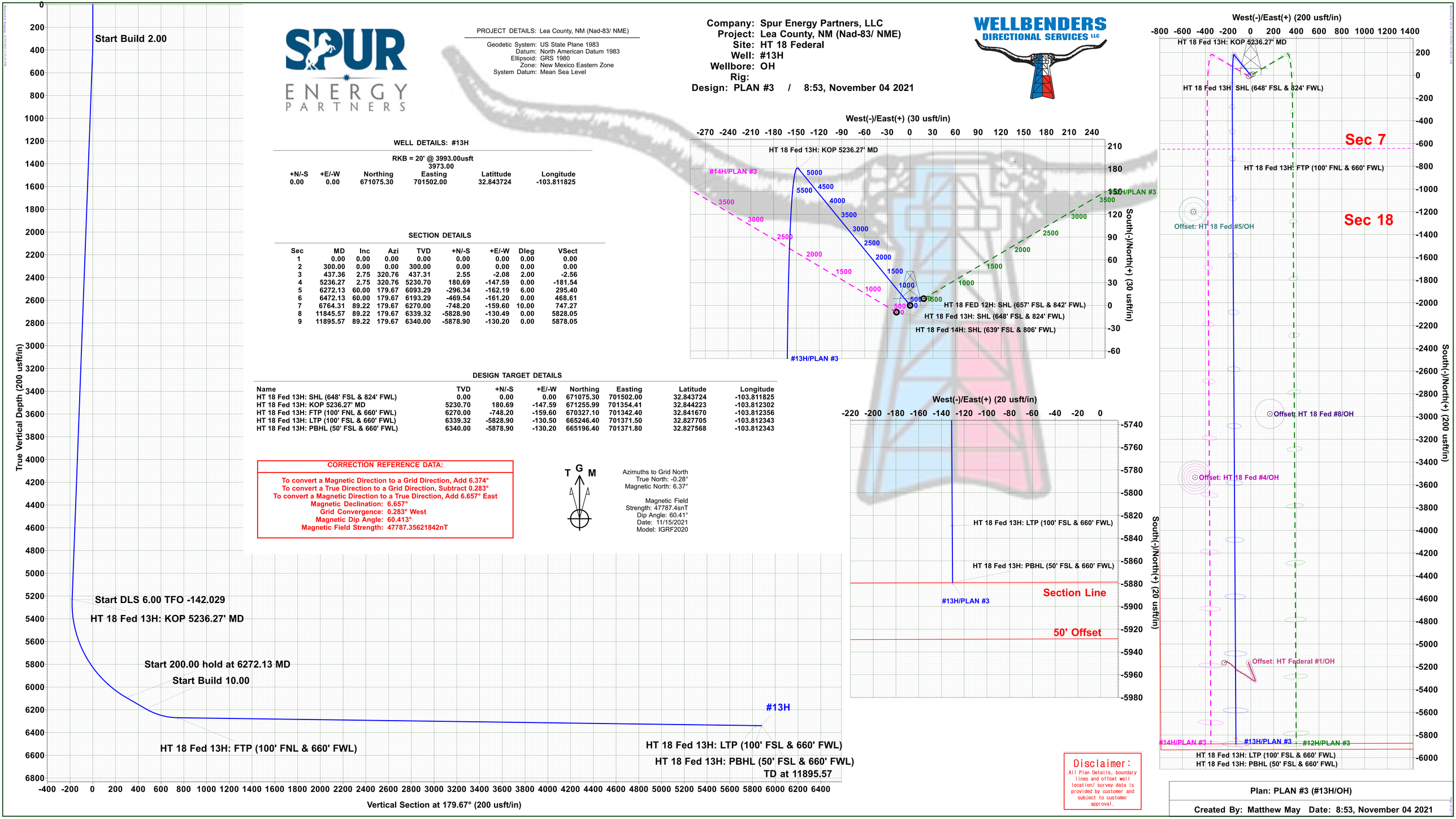
9. Other facets of operation

	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 Attachments
_x__ BOP Schematics
_x__ Transcend Spudder Rig Attachments

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

PROJECT DETAILS: Lea 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

Company: Spur Energy Partners, LLC
Project: Lea County, NM (Nad-83/ NME)
Site: HT 18 Federal
Well: #13H
Wellbore: OH
Rig:
Design: PLAN #3 / 8:53, November 04 2021

WELLBENDERS DIRECTIONAL SERVICES LLC

WELL DETAILS: #13H

RKB = 20' @ 3993.00usft
3973.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	671075.30	701502.00	32.843724	-103.811825

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	437.36	2.75	320.76	437.31	2.55	-2.08	2.00	-2.56
4	5236.27	2.75	320.76	5230.70	180.69	-147.59	0.00	-181.54
5	6272.13	60.00	179.67	6093.29	-296.34	-162.19	6.00	295.40
6	6472.13	60.00	179.67	6193.29	-469.54	-161.20	0.00	468.61
7	6764.31	89.22	179.67	6270.00	-748.20	-159.60	10.00	747.27
8	11845.57	89.22	179.67	6339.32	-5828.90	-130.49	0.00	5828.05
9	11895.57	89.22	179.67	6340.00	-5878.90	-130.20	0.00	5878.05

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
HT 18 Fed 13H: SHL (648' FSL & 824' FWL)	0.00	0.00	0.00	671075.30	701502.00	32.843724	-103.811825
HT 18 Fed 13H: KOP 5236.27' MD	5230.70	180.69	-147.59	671255.99	701354.41	32.844223	-103.812302
HT 18 Fed 13H: FTP (100' FNL & 660' FWL)	6270.00	-748.20	-159.60	670327.10	701342.40	32.841670	-103.812356
HT 18 Fed 13H: LTP (100' FSL & 660' FWL)	6339.32	-5828.90	-130.50	665246.40	701371.50	32.827705	-103.812343
HT 18 Fed 13H: PBHL (50' FSL & 660' FWL)	6340.00	-5878.90	-130.20	665196.40	701371.80	32.827568	-103.812343

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.374°
To convert a True Direction to a Grid Direction, Subtract 0.283°
To convert a Magnetic Direction to a True Direction, Add 6.657° East
Magnetic Declination: 6.657°
Grid Convergence: 0.283° West
Magnetic Dip Angle: 60.413°
Magnetic Field Strength: 47787.35621842nT

Azimuths to Grid North
True North: -0.28°
Magnetic North: 6.37°

Magnetic Field
Strength: 47787.4snT
Dip Angle: 60.41°
Date: 11/15/2021
Model: IGRF2020

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

Plan: PLAN #3 (#13H/OH)

Created By: Matthew May Date: 8:53, November 04 2021

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District IV
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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 62468

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 62468
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	11/19/2021