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.

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.

2. Name of Operator

9. API Well No.
30-015-57104

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

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

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

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

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	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: 07/10/2025

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-57104	~~96718~~ 97979	WC-015 G-015 S173002A; Glorieta-Yeso ~~LOCO HILLS; GLORIETA-YESO~~

Property Code	Property Name	Well Number
337706	KALIK 6 FEDERAL COM	20H

OGRID No.	Operator Name	Ground Level Elevation
328947	SPUR ENERGY PARTNERS, LLC.	3689'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal | Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	1	17S	29E	1	955 FNL	750 FEL	32.8681596°N	104.0220741°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	6	17S	30E	1	525 FNL	50 FEL	32.8693329°N	104.0029272°W	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
155.71	N/A	N/A	N	F AND P

Order Numbers. PENDING | Well setbacks are under Common Ownership: ☒ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	1	17S	29E	1	603 FNL	837 FEL	32.8691277°N	104.0223524°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	6	17S	30E	4	525 FNL	100 FWL	32.8693358°N	104.0193010°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	6	17S	30E	1	525 FNL	100 FEL	32.8693329°N	104.0030900°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type	Ground Floor Elevation:
Y	☒ Horizontal ☐ Vertical	3689' GF

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and , if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Sarah Chapman 02/20/2025

Signature Date

SARAH CHAPMAN

Printed Name

SCHAPMAN@SPURENERGY.COM

Email Address

SURVEYOR CERTIFICATIONS

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

DALE E. BELL NEW MEXICO 14400 02/19/2025 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
14400	01/29/2025

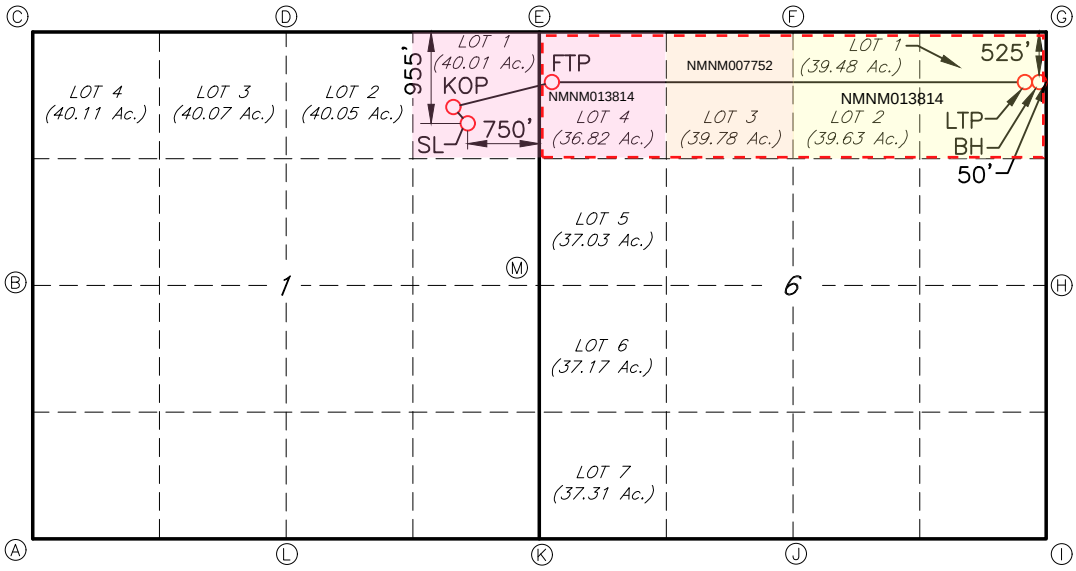
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

KALIK 6 FEDERAL COM #20H



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
N: 679710.9 – E: 636904.1

LAT: 32.8681596° N
LONG: 104.0220741° W

KICK OFF POINT (KOP)
N: 680062.8 – E: 636817.7

LAT: 32.8691277° N
LONG: 104.0223524° W

FIRST TAKE POINT (FTP)
N: 680141.4 – E: 637754.3

LAT: 32.8693358° N
LONG: 104.0193010° W

LAST TAKE POINT (LTP)
N: 680155.5 – E: 642731.6

LAT: 32.8693329° N
LONG: 104.0030900° W

BOTTOM HOLE (BH)
N: 680155.6 – E: 642781.6

LAT: 32.8693329° N
LONG: 104.0029272° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1914"
N: 675386.0 – E: 632379.4

B: FOUND BRASS CAP "1914"
N: 678025.2 – E: 632377.9

C: FOUND BRASS CAP "1916"
N: 680663.6 – E: 632375.5

D: FOUND BRASS CAP "1914"
N: 680666.0 – E: 635014.9

E: FOUND BRASS CAP "1916"
N: 680665.9 – E: 637654.6

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

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

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

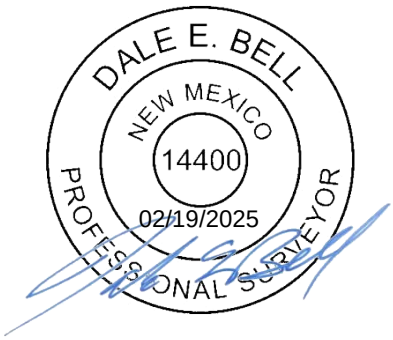
I: FOUND BRASS CAP "1916"
N: 675419.9 – E: 642848.2

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

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

L: FOUND BRASS CAP "1914"
N: 675390.1 – E: 635023.9

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



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:** 02 / 25 / 2025

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
KALIK 6 FEDERAL COM 20H	30-015-	A-1-17S-29E	955' FNL 750' FEL	364 BBL/D	622 MCF/D	1020 BBL/D
KALIK 6 FEDERAL COM 21H	30-015-	A-1-17S-29E	975' FNL 750' FEL	364 BBL/D	622 MCF/D	1020 BBL/D

IV. Central Delivery Point Name: KALIK 6 FEDERAL COM 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
KALIK 6 FEDERAL COM 20H	30-015-	12/15/2025	12/23/2025	01/14/2026	01/19/2026	01/25/2026
KALIK 6 FEDERAL COM 21H	30-015-	12/23/2025	12/31/2025	01/14/2026	01/19/2026	01/25/2026

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:	02/25/2025
Phone:	832-930-8613

OIL CONSERVATION DIVISION

(Only applicable when submitted as a standalone form)

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

Spur Energy Partners LLC – Kalik 6 Federal Com 20H

1. Geologic Formations

TVD of Target	4,500'
MD at TD	10,025'

Formation	Depth	Lithology	Expected Fluids
Quaternary	0'	Dolomite, other: Caliche	Useable Water
Rustler	270'	Dolomite, Shale, Anhydrite	Other: Brackish Water
Top Salt	465'	Anhydrite	Other: Salt
Tansill	1045'	Sandstone, Dolomite	None
Yates	1170'	Dolomite, Limestone, Shale, Siltstone	None
Seven Rivers	1425'	Dolomite, Limestone	Natural Gas, Oil
Queen	2025'	Anhydrite, Dolomite, Sandstone	Natural Gas, Oil
Grayburg	2425'	Anhydrite	Natural Gas, Oil
San Andres	2755'	Dolomite	Natural Gas, Oil
Glorieta	4195'	Dolomite, Siltstone	Natural Gas, Oil
Paddock	4285'	Dolomite, Limestone	Natural Gas, Oil
Blinebry	4650'	Dolomite, Limestone	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

Casing Formation Set Interval	Hole Size (in)	Casing Interval		Csg. Size (in)	Weight	Grade	Conn.	SF	SF Burst	Body SF	Joint SF
		From (ft)	To (ft)		(lbs)			Collapse		Tension	Tension
Rustler	17.5	0	375	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
Seven Rivers	12.25	0	1700	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
N/A	8.75	0	4750	7	32	HCL-80	GBCD	1.125	1.2	1.4	1.4
Yeso	8.75	4750	10025	5.5	20	HCL-80	GBCD	1.125	1.2	1.4	1.4
								SF Values will meet or Exceed			

Spur Energy Partners LLC – Kalik 6 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?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface Tail	0	375	100%
Intermediate (Lead)	0	375	50%
Intermediate (Tail)	375	1700	100%
Production (Lead)	0	3750	0%
Production (Tail)	3750	10025	50%

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface Tail	233	13.2	2.32	9.92	6:59	Clas C Premium Plus Cement
Intermediate (Lead)	74	12.2	1.84	13.48	8:12	Clas C Premium Plus Cement
Intermediate (Tail)	366	13.2	2.32	9.92	6:59	Clas C Premium Plus Cement
Production (Lead)	524	11.8	2.54	15.29	N/A	Clas C Premium Plus Cement
Production (Tail)	1234	13.2	1.81	9.81	N/A	Clas C Premium Plus Cement

Spur Energy Partners LLC – Kalik 6 Federal Com 20H

4. Pressure Control Equipment

Spur Energy Partners LLC variance for flex hose

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	2083 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	116°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.

Spur Energy Partners LLC – Kalik 6 Federal Com 20H

	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	375	Water-Based Mud	8.6-8.9	32-36	N/C
450	1700	Brine	9.0-10.0	32-36	N/C
1700	10025	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 – Kalik 6 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: 920.5 bbls**.**

Spur Energy Partners LLC – Kalik 6 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/intermediate 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

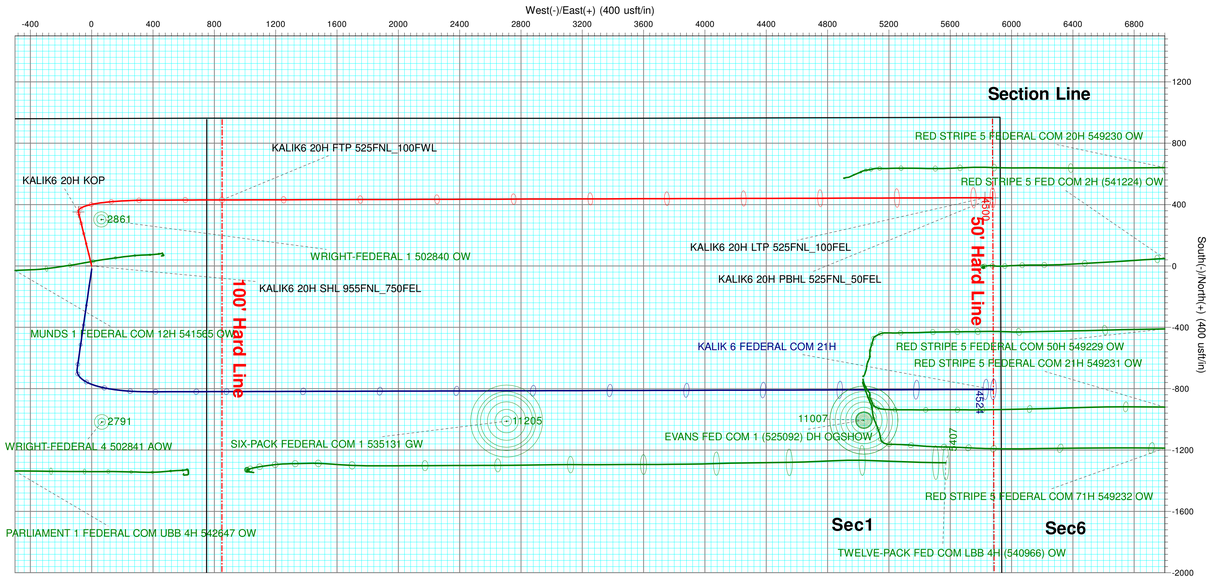
SPUR ENERGY PARTNERS LLC.

Project: Eddy County, NM (NAD83) NMEZ Grid
Site: KALIK 6 FEDERAL COM
Well: KALIK 6 FEDERAL COM 20H
Wellbore: 20H OH
Design: Plan #1

3689+20 @ 3709.00usft (AKITA)
North American Datum 1983

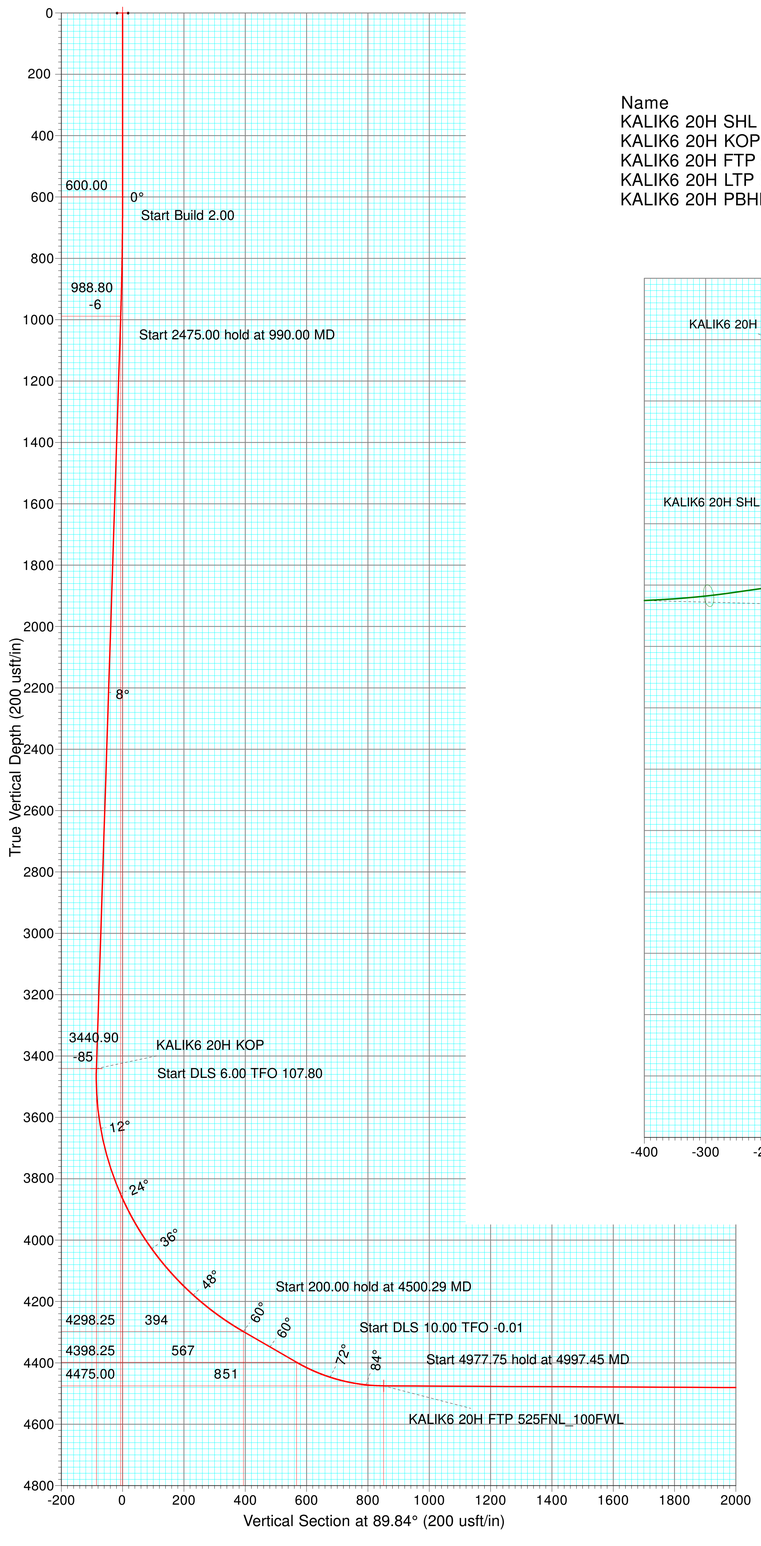
PLAN SECTIONS

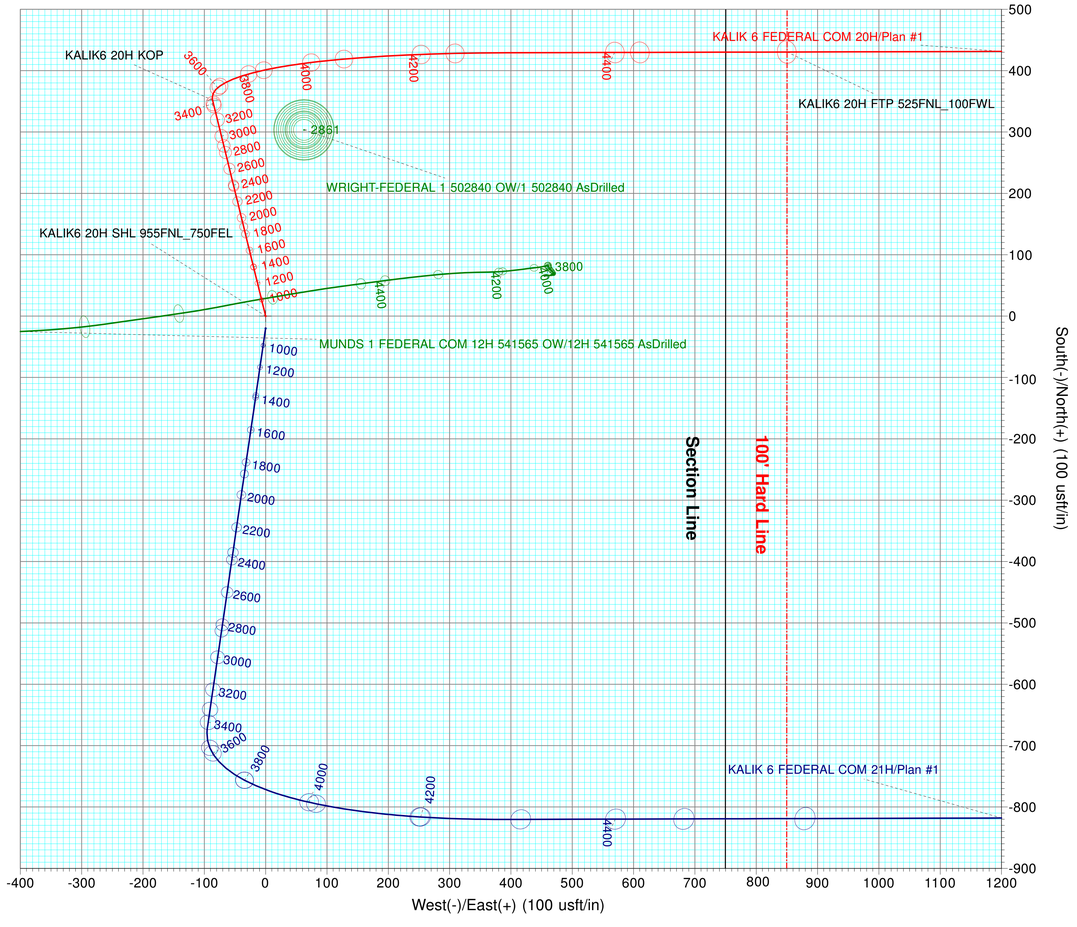
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00
990.00	7.80	346.20	988.80	25.74	-6.32	2.00	346.20	-6.25
3465.00	7.80	346.20	3440.90	351.94	-86.44	0.00	0.00	-85.46
4500.29	60.00	89.84	4298.25	429.13	393.00	6.00	107.80	394.20
4700.29	60.00	89.84	4398.25	429.61	566.20	0.00	0.00	567.40
4997.45	89.72	89.84	4475.00	430.41	849.83	10.00	-0.01	851.03
9975.19	89.72	89.84	4499.75	444.56	5827.50	0.00	0.00	5828.72
10025.20	89.72	89.84	4500.00	444.70	5877.50	0.00	0.00	5878.72

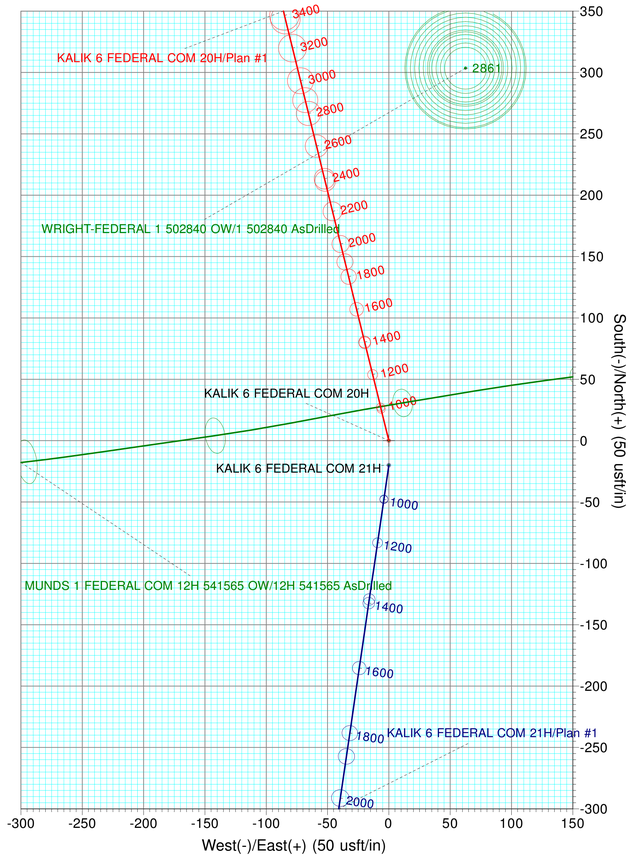


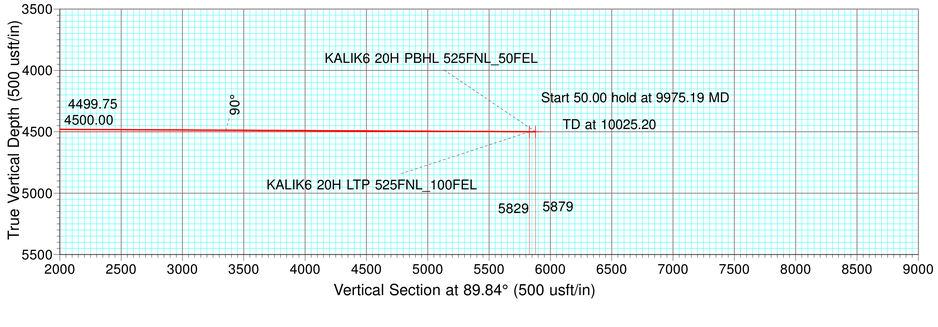
TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
KALIK6 20H SHL 955FNL_750FEL	0.00	0.00	0.00	679710.900	636904.100
KALIK6 20H KOP	3440.90	351.94	-86.44	680062.840	636817.660
KALIK6 20H FTP 525FNL_100FWL	4475.00	430.50	850.20	680141.400	637754.300
KALIK6 20H LTP 525FNL_100FEL	4499.75	444.60	5827.50	680155.500	642731.600
KALIK6 20H PBHL 525FNL_50FEL	4500.00	444.70	5877.50	680155.600	642781.600

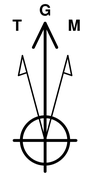








PRIME SOLUTION SERVICES



Azimuths to Grid North
True North: -0.17°
Magnetic North: 6.37°

Magnetic Field
Strength: 47396.0nT
Dip Angle: 60.28°
Date: 02/17/2025
Model: NOAA 2025

PROJECT DETAILS: Eddy County, NM (NAD83) NMEZ Grid
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

To convert a Magnetic Direction to a Grid Direction, Add 6.37°

Magnetic North is 6.37° East of Grid North (Magnetic Convergence)
Magnetic North is 6.54° East of True North (Magnetic Declination)

SPUR ENERGY PARTNERS LLC.
Eddy County, NM (NAD83) NMEZ Grid
KALIK 6 FEDERAL COM
KALIK 6 FEDERAL COM 20H
20H OH
Plan #1
Created By: Mekka Williams
eSomina Well Design
mekka@esominawelldesign.com

eSomina WELL DESIGN

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid
KALIK 6 FEDERAL COM
KALIK 6 FEDERAL COM 20H

20H OH

Plan: Plan #1

Standard Planning Report

17 February, 2025

Planning Report

Database:	PRIME_EDM	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Company:	SPUR ENERGY PARTNERS LLC.	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Project:	Eddy County, NM (NAD83) NMEZ Grid	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site:	KALIK 6 FEDERAL COM	**North Reference:**	Grid
Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	20H OH		
Design:	Plan #1		

Project Eddy County, NM (NAD83) NMEZ Grid

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

Site KALIK 6 FEDERAL COM

Site Position:		**Northing:**	679,710.900 usft	**Latitude:**	32.8681596
From:	Map	**Easting:**	636,904.100 usft	**Longitude:**	-104.0220742
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.17 °

Well KALIK 6 FEDERAL COM 20H

Well Position	**+N/-S**	0.00 usft	**Northing:**	679,710.900 usft	**Latitude:**	32.8681596
	+E/-W	0.00 usft	**Easting:**	636,904.100 usft	**Longitude:**	-104.0220742
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,689.00 usft

Wellbore 20H OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	02/17/25	6.54	60.28	47,396.00000000

Design Plan #1

Audit Notes:

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

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.84

Plan Survey Tool Program **Date** 02/17/25

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,025.20	Plan #1 (20H OH)	MWD+IFR1+SAG+FDIR	
				OWSG MWD + IFR1 + Sag + F	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
990.00	7.80	346.20	988.80	25.74	-6.32	2.00	2.00	0.00	346.20	
3,465.00	7.80	346.20	3,440.90	351.94	-86.44	0.00	0.00	0.00	0.00	
4,500.29	60.00	89.84	4,298.25	429.13	393.00	6.00	5.04	10.01	107.80	
4,700.29	60.00	89.84	4,398.25	429.61	566.20	0.00	0.00	0.00	0.00	
4,997.45	89.72	89.84	4,475.00	430.41	849.83	10.00	10.00	0.00	-0.01	
9,975.19	89.72	89.84	4,499.75	444.56	5,827.50	0.00	0.00	0.00	0.00	KALIK6 20H LTP 525
10,025.20	89.72	89.84	4,500.00	444.70	5,877.50	0.00	0.00	0.00	0.00	KALIK6 20H PBHL 52

Planning Report

Database:	PRIME_EDM	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Company:	SPUR ENERGY PARTNERS LLC.	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Project:	Eddy County, NM (NAD83) NMEZ Grid	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site:	KALIK 6 FEDERAL COM	**North Reference:**	Grid
Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	20H OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	2.00	346.20	699.98	1.69	-0.42	-0.41	2.00	2.00	0.00
800.00	4.00	346.20	799.84	6.78	-1.66	-1.65	2.00	2.00	0.00
900.00	6.00	346.20	899.45	15.24	-3.74	-3.70	2.00	2.00	0.00
990.00	7.80	346.20	988.80	25.74	-6.32	-6.25	2.00	2.00	0.00
1,000.00	7.80	346.20	998.70	27.06	-6.65	-6.57	0.00	0.00	0.00
1,100.00	7.80	346.20	1,097.78	40.24	-9.88	-9.77	0.00	0.00	0.00
1,200.00	7.80	346.20	1,196.85	53.42	-13.12	-12.97	0.00	0.00	0.00
1,300.00	7.80	346.20	1,295.93	66.60	-16.36	-16.17	0.00	0.00	0.00
1,400.00	7.80	346.20	1,395.00	79.78	-19.60	-19.37	0.00	0.00	0.00
1,500.00	7.80	346.20	1,494.08	92.96	-22.83	-22.57	0.00	0.00	0.00
1,600.00	7.80	346.20	1,593.15	106.14	-26.07	-25.77	0.00	0.00	0.00
1,700.00	7.80	346.20	1,692.23	119.32	-29.31	-28.97	0.00	0.00	0.00
1,800.00	7.80	346.20	1,791.30	132.50	-32.54	-32.17	0.00	0.00	0.00
1,900.00	7.80	346.20	1,890.38	145.68	-35.78	-35.37	0.00	0.00	0.00
2,000.00	7.80	346.20	1,989.45	158.86	-39.02	-38.58	0.00	0.00	0.00
2,100.00	7.80	346.20	2,088.53	172.04	-42.26	-41.78	0.00	0.00	0.00
2,200.00	7.80	346.20	2,187.60	185.22	-45.49	-44.98	0.00	0.00	0.00
2,300.00	7.80	346.20	2,286.68	198.40	-48.73	-48.18	0.00	0.00	0.00
2,400.00	7.80	346.20	2,385.75	211.58	-51.97	-51.38	0.00	0.00	0.00
2,500.00	7.80	346.20	2,484.83	224.76	-55.21	-54.58	0.00	0.00	0.00
2,600.00	7.80	346.20	2,583.90	237.94	-58.44	-57.78	0.00	0.00	0.00
2,700.00	7.80	346.20	2,682.98	251.12	-61.68	-60.98	0.00	0.00	0.00
2,800.00	7.80	346.20	2,782.05	264.29	-64.92	-64.18	0.00	0.00	0.00
2,900.00	7.80	346.20	2,881.12	277.47	-68.15	-67.38	0.00	0.00	0.00
3,000.00	7.80	346.20	2,980.20	290.65	-71.39	-70.58	0.00	0.00	0.00
3,100.00	7.80	346.20	3,079.27	303.83	-74.63	-73.78	0.00	0.00	0.00
3,200.00	7.80	346.20	3,178.35	317.01	-77.87	-76.98	0.00	0.00	0.00
3,300.00	7.80	346.20	3,277.42	330.19	-81.10	-80.18	0.00	0.00	0.00
3,400.00	7.80	346.20	3,376.50	343.37	-84.34	-83.38	0.00	0.00	0.00
3,465.00	7.80	346.20	3,440.90	351.94	-86.44	-85.46	0.00	0.00	0.00
3,500.00	7.43	1.85	3,475.59	356.51	-86.94	-85.94	6.00	-1.06	44.72
3,550.00	7.90	24.22	3,525.16	362.88	-85.42	-84.41	6.00	0.94	44.74
3,600.00	9.35	41.85	3,574.60	369.04	-81.30	-80.27	6.00	2.91	35.26
3,650.00	11.42	53.98	3,623.78	374.97	-74.59	-73.54	6.00	4.14	24.27
3,700.00	13.83	62.20	3,672.57	380.67	-65.30	-64.23	6.00	4.82	16.43
3,750.00	16.43	67.94	3,720.84	386.12	-53.45	-52.37	6.00	5.21	11.48
3,800.00	19.15	72.11	3,768.44	391.30	-39.09	-38.00	6.00	5.43	8.36
3,850.00	21.94	75.28	3,815.26	396.19	-22.25	-21.14	6.00	5.58	6.33
3,900.00	24.77	77.75	3,861.16	400.79	-2.97	-1.85	6.00	5.67	4.95
3,950.00	27.64	79.75	3,906.02	405.07	18.68	19.82	6.00	5.74	3.99
4,000.00	30.53	81.39	3,949.71	409.04	42.66	43.80	6.00	5.78	3.29
4,050.00	33.44	82.78	3,992.11	412.68	68.89	70.05	6.00	5.82	2.77
4,100.00	36.37	83.96	4,033.11	415.97	97.31	98.47	6.00	5.84	2.37
4,150.00	39.30	84.99	4,072.60	418.91	127.83	129.00	6.00	5.87	2.06
4,200.00	42.24	85.90	4,110.46	421.49	160.37	161.55	6.00	5.88	1.82
4,250.00	45.19	86.72	4,146.60	423.71	194.85	196.03	6.00	5.89	1.63
4,300.00	48.14	87.45	4,180.91	425.56	231.16	232.35	6.00	5.90	1.47

Planning Report

Database:	PRIME_EDM	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Company:	SPUR ENERGY PARTNERS LLC.	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Project:	Eddy County, NM (NAD83) NMEZ Grid	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site:	KALIK 6 FEDERAL COM	**North Reference:**	Grid
Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	20H OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,350.00	51.09	88.12	4,213.30	427.02	269.22	270.41	6.00	5.91	1.34
4,400.00	54.05	88.73	4,243.69	428.11	308.91	310.10	6.00	5.92	1.23
4,450.00	57.02	89.30	4,271.98	428.81	350.12	351.31	6.00	5.93	1.14
4,500.29	60.00	89.84	4,298.25	429.13	393.00	394.20	6.00	5.93	1.07
4,600.00	60.00	89.84	4,348.10	429.37	479.35	480.54	0.00	0.00	0.00
4,700.29	60.00	89.84	4,398.25	429.61	566.20	567.40	0.00	0.00	0.00
4,750.00	64.97	89.84	4,421.20	429.74	610.27	611.47	10.00	10.00	0.00
4,800.00	69.97	89.84	4,440.36	429.87	656.44	657.64	10.00	10.00	0.00
4,850.00	74.97	89.84	4,455.41	430.00	704.11	705.30	10.00	10.00	0.00
4,900.00	79.97	89.84	4,466.26	430.14	752.90	754.10	10.00	10.00	0.00
4,950.00	84.97	89.84	4,472.80	430.28	802.45	803.65	10.00	10.00	0.00
4,997.45	89.72	89.84	4,475.00	430.41	849.83	851.03	10.00	10.00	0.00
5,000.00	89.72	89.84	4,475.02	430.42	852.39	853.59	0.00	0.00	0.00
5,100.00	89.72	89.84	4,475.51	430.71	952.39	953.58	0.00	0.00	0.00
5,200.00	89.72	89.84	4,476.01	430.99	1,052.38	1,053.58	0.00	0.00	0.00
5,300.00	89.72	89.84	4,476.51	431.27	1,152.38	1,153.58	0.00	0.00	0.00
5,400.00	89.72	89.84	4,477.01	431.56	1,252.38	1,253.58	0.00	0.00	0.00
5,500.00	89.72	89.84	4,477.50	431.84	1,352.38	1,353.58	0.00	0.00	0.00
5,600.00	89.72	89.84	4,478.00	432.13	1,452.38	1,453.58	0.00	0.00	0.00
5,700.00	89.72	89.84	4,478.50	432.41	1,552.38	1,553.58	0.00	0.00	0.00
5,800.00	89.72	89.84	4,478.99	432.69	1,652.37	1,653.58	0.00	0.00	0.00
5,900.00	89.72	89.84	4,479.49	432.98	1,752.37	1,753.57	0.00	0.00	0.00
6,000.00	89.72	89.84	4,479.99	433.26	1,852.37	1,853.57	0.00	0.00	0.00
6,100.00	89.72	89.84	4,480.49	433.55	1,952.37	1,953.57	0.00	0.00	0.00
6,200.00	89.72	89.84	4,480.98	433.83	2,052.37	2,053.57	0.00	0.00	0.00
6,300.00	89.72	89.84	4,481.48	434.11	2,152.37	2,153.57	0.00	0.00	0.00
6,400.00	89.72	89.84	4,481.98	434.40	2,252.36	2,253.57	0.00	0.00	0.00
6,500.00	89.72	89.84	4,482.47	434.68	2,352.36	2,353.57	0.00	0.00	0.00
6,600.00	89.72	89.84	4,482.97	434.97	2,452.36	2,453.57	0.00	0.00	0.00
6,700.00	89.72	89.84	4,483.47	435.25	2,552.36	2,553.56	0.00	0.00	0.00
6,800.00	89.72	89.84	4,483.97	435.54	2,652.36	2,653.56	0.00	0.00	0.00
6,900.00	89.72	89.84	4,484.46	435.82	2,752.36	2,753.56	0.00	0.00	0.00
7,000.00	89.72	89.84	4,484.96	436.10	2,852.35	2,853.56	0.00	0.00	0.00
7,100.00	89.72	89.84	4,485.46	436.39	2,952.35	2,953.56	0.00	0.00	0.00
7,200.00	89.72	89.84	4,485.95	436.67	3,052.35	3,053.56	0.00	0.00	0.00
7,300.00	89.72	89.84	4,486.45	436.96	3,152.35	3,153.56	0.00	0.00	0.00
7,400.00	89.72	89.84	4,486.95	437.24	3,252.35	3,253.56	0.00	0.00	0.00
7,500.00	89.72	89.84	4,487.45	437.52	3,352.35	3,353.55	0.00	0.00	0.00
7,600.00	89.72	89.84	4,487.94	437.81	3,452.34	3,453.55	0.00	0.00	0.00
7,700.00	89.72	89.84	4,488.44	438.09	3,552.34	3,553.55	0.00	0.00	0.00
7,800.00	89.72	89.84	4,488.94	438.38	3,652.34	3,653.55	0.00	0.00	0.00
7,900.00	89.72	89.84	4,489.43	438.66	3,752.34	3,753.55	0.00	0.00	0.00
8,000.00	89.72	89.84	4,489.93	438.95	3,852.34	3,853.55	0.00	0.00	0.00
8,100.00	89.72	89.84	4,490.43	439.23	3,952.34	3,953.55	0.00	0.00	0.00
8,200.00	89.72	89.84	4,490.93	439.51	4,052.33	4,053.55	0.00	0.00	0.00
8,300.00	89.72	89.84	4,491.42	439.80	4,152.33	4,153.54	0.00	0.00	0.00
8,400.00	89.72	89.84	4,491.92	440.08	4,252.33	4,253.54	0.00	0.00	0.00
8,500.00	89.72	89.84	4,492.42	440.37	4,352.33	4,353.54	0.00	0.00	0.00
8,600.00	89.72	89.84	4,492.91	440.65	4,452.33	4,453.54	0.00	0.00	0.00
8,700.00	89.72	89.84	4,493.41	440.93	4,552.33	4,553.54	0.00	0.00	0.00
8,800.00	89.72	89.84	4,493.91	441.22	4,652.32	4,653.54	0.00	0.00	0.00
8,900.00	89.72	89.84	4,494.41	441.50	4,752.32	4,753.54	0.00	0.00	0.00
9,000.00	89.72	89.84	4,494.90	441.79	4,852.32	4,853.54	0.00	0.00	0.00

Planning Report

Database:	PRIME_EDM	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Company:	SPUR ENERGY PARTNERS LLC.	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Project:	Eddy County, NM (NAD83) NMEZ Grid	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site:	KALIK 6 FEDERAL COM	**North Reference:**	Grid
Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	20H OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,100.00	89.72	89.84	4,495.40	442.07	4,952.32	4,953.54	0.00	0.00	0.00
9,200.00	89.72	89.84	4,495.90	442.36	5,052.32	5,053.53	0.00	0.00	0.00
9,300.00	89.72	89.84	4,496.39	442.64	5,152.32	5,153.53	0.00	0.00	0.00
9,400.00	89.72	89.84	4,496.89	442.92	5,252.31	5,253.53	0.00	0.00	0.00
9,500.00	89.72	89.84	4,497.39	443.21	5,352.31	5,353.53	0.00	0.00	0.00
9,600.00	89.72	89.84	4,497.89	443.49	5,452.31	5,453.53	0.00	0.00	0.00
9,700.00	89.72	89.84	4,498.38	443.78	5,552.31	5,553.53	0.00	0.00	0.00
9,800.00	89.72	89.84	4,498.88	444.06	5,652.31	5,653.53	0.00	0.00	0.00
9,900.00	89.72	89.84	4,499.38	444.34	5,752.31	5,753.53	0.00	0.00	0.00
9,975.19	89.72	89.84	4,499.75	444.56	5,827.50	5,828.72	0.00	0.00	0.00
10,000.00	89.72	89.84	4,499.87	444.63	5,852.31	5,853.52	0.00	0.00	0.00
10,025.20	89.72	89.84	4,500.00	444.70	5,877.50	5,878.72	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
KALIK6 20H SHL 955FN - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	679,710.900	636,904.100	32.8681596	-104.0220742
KALIK6 20H KOP - plan misses target center by 0.01usft at 3465.00usft MD (3440.90 TVD, 351.94 N, -86.44 E) - Point	0.00	0.00	3,440.90	351.94	-86.44	680,062.840	636,817.660	32.8691277	-104.0223524
KALIK6 20H FTP 525FN - plan misses target center by 0.09usft at 4997.81usft MD (4475.01 TVD, 430.41 N, 850.20 E) - Point	0.00	0.00	4,475.00	430.50	850.20	680,141.400	637,754.300	32.8693360	-104.0193010
KALIK6 20H LTP 525FN - plan misses target center by 0.04usft at 9975.19usft MD (4499.75 TVD, 444.56 N, 5827.50 E) - Point	0.00	0.00	4,499.75	444.60	5,827.50	680,155.500	642,731.600	32.8693330	-104.0030899
KALIK6 20H PBHL 525F - plan hits target center - Point	0.00	0.00	4,500.00	444.70	5,877.50	680,155.600	642,781.600	32.8693328	-104.0029270

SPUR ENERGY PARTNERS LLC.

Eddy County, NM (NAD83) NMEZ Grid
KALIK 6 FEDERAL COM
KALIK 6 FEDERAL COM 20H

20H OH
Plan #1

Anticollision Report

17 February, 2025

Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Reference Plan #1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Unknown AC limit!	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 02/17/25

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	10,025.20	Plan #1 (20H OH)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction

Summary

Site Name / Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
KALIK 6 FEDERAL COM						
KALIK 6 FEDERAL COM 21H - 21H OH - Plan #1	516.33	517.33	20.00	16.72	6.106	CC
KALIK 6 FEDERAL COM 21H - 21H OH - Plan #1	600.00	600.99	20.00	16.13	5.161	ES
KALIK 6 FEDERAL COM 21H - 21H OH - Plan #1	700.00	700.00	23.44	18.87	5.127	SF
KALIK 6 FEDERAL COM OFFSETS						
EVANS FED COM 1 (525092) DH OGSHOW - EVANS FE						Out of range
MUNDS 1 FEDERAL COM 12H 541565 OW - 12H 54156	0.00	0.00	459.76			
MUNDS 1 FEDERAL COM 12H 541565 OW - 12H 54156	4,435.89	4,286.33	357.39	335.75	16.517	CC, ES
PARLIAMENT 1 FEDERAL COM UBB 4H 542647 OW - 4						Out of range
RED STRIPE 5 FED COM 2H (541224) OW - RS5FEDCO	10,025.20	4,486.00	459.10	377.86	5.651	CC, ES, SF
RED STRIPE 5 FEDERAL COM 20H 549230 OW - RS 5	10,025.20	4,866.93	198.30	109.24	2.227	CC, ES, SF
RED STRIPE 5 FEDERAL COM 21H 549231 OW - RS 5						Out of range
RED STRIPE 5 FEDERAL COM 50H 549229 OW - S 5 FE						Out of range
RED STRIPE 5 FEDERAL COM 71H 549232 OW - RS 5						Out of range
SIX-PACK FEDERAL COM 1 535131 GW - 1 535131 - 1 5						Out of range
TWELVE-PACK FED COM LBB 4H (540966) OW - TP FE						Out of range
WRIGHT-FEDERAL 1 502840 OW - 1 502840 - 1 502840	2,856.78	2,815.31	133.11	73.86	2.247	CC, ES, SF
WRIGHT-FEDERAL 4 502841 AOW - 4 502841 - 4 50284						Out of range

Offset Design KALIK 6 FEDERAL COM - KALIK 6 FEDERAL COM 21H - 21H OH - Plan #1 — **Offset Site Error:** 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	0.00	0.00	0.00	180.00	-20.00	0.00	20.00				
100.00	100.00	101.00	100.00	0.14	0.15	180.00	-20.00	0.00	20.00	19.71	0.29	68.879	
200.00	200.00	201.00	200.00	0.50	0.51	180.00	-20.00	0.00	20.00	18.99	1.01	19.855	
300.00	300.00	301.00	300.00	0.86	0.86	180.00	-20.00	0.00	20.00	18.28	1.72	11.599	
400.00	400.00	401.00	400.00	1.22	1.22	180.00	-20.00	0.00	20.00	17.56	2.44	8.193	
500.00	500.00	501.00	500.00	1.58	1.58	180.00	-20.00	0.00	20.00	16.84	3.16	6.333	
516.33	516.33	517.33	516.33	1.64	1.64	180.00	-20.00	0.00	20.00	16.72	3.28	6.106	CC
600.00	600.00	600.99	599.99	1.94	1.94	-180.00	-20.00	0.00	20.00	16.13	3.87	5.161	ES
700.00	699.98	700.00	698.98	2.29	2.28	-166.57	-21.73	-0.25	23.44	18.87	4.57	5.127	SF
800.00	799.84	798.69	797.54	2.66	2.61	-167.25	-26.82	-0.99	33.68	28.42	5.26	6.402	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design KALIK 6 FEDERAL COM - KALIK 6 FEDERAL COM 21H - 21H OH - Plan #1

Offset Site Error: 0.00 usft

Survey Program: 0-MWD+IFR1+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
900.00	899.45	895.84	894.31	3.02	2.94	-167.76	-35.10	-2.20	50.63	44.68	5.94	8.517	
990.00	988.80	981.58	979.45	3.34	3.23	-168.03	-45.11	-3.66	71.51	64.96	6.55	10.918	
1,000.00	998.70	990.99	988.78	3.38	3.27	-168.06	-46.36	-3.85	74.14	67.52	6.62	11.197	
1,100.00	1,097.78	1,084.19	1,080.89	3.73	3.59	-168.09	-60.39	-5.89	102.12	94.85	7.26	14.057	
1,200.00	1,196.85	1,175.57	1,170.71	4.09	3.91	-167.87	-77.02	-8.32	133.12	125.23	7.89	16.867	
1,300.00	1,295.93	1,265.02	1,258.06	4.45	4.24	-167.55	-96.04	-11.09	167.07	158.56	8.50	19.645	
1,400.00	1,395.00	1,352.67	1,343.04	4.81	4.56	-167.20	-117.27	-14.19	203.86	194.76	9.10	22.410	
1,500.00	1,494.08	1,445.12	1,432.35	5.17	4.91	-166.89	-140.92	-17.64	241.94	232.19	9.75	24.815	
1,600.00	1,593.15	1,537.58	1,521.67	5.53	5.27	-166.66	-164.57	-21.09	280.03	269.62	10.41	26.907	
1,700.00	1,692.23	1,630.04	1,610.98	5.90	5.62	-166.49	-188.22	-24.54	318.12	307.06	11.07	28.745	
1,800.00	1,791.30	1,722.50	1,700.30	6.26	5.99	-166.35	-211.87	-27.99	356.22	344.49	11.73	30.371	
1,900.00	1,890.38	1,814.95	1,789.62	6.62	6.35	-166.24	-235.52	-31.44	394.31	381.92	12.39	31.818	
2,000.00	1,989.45	1,907.41	1,878.93	6.99	6.71	-166.15	-259.16	-34.89	432.40	419.35	13.06	33.115	
2,100.00	2,088.53	1,999.87	1,968.25	7.35	7.08	-166.07	-282.81	-38.34	470.50	456.78	13.72	34.283	
9,600.00	4,497.89	9,676.35	4,519.77	63.00	62.95	91.00	-806.18	5,455.55	1,249.87	1,124.03	125.83	9.933	
9,700.00	4,498.38	9,776.35	4,520.76	64.09	64.04	91.03	-805.90	5,555.55	1,249.88	1,121.87	128.02	9.763	
9,800.00	4,498.88	9,876.35	4,521.75	65.18	65.14	91.05	-805.63	5,655.54	1,249.90	1,119.70	130.20	9.600	
9,900.00	4,499.38	9,976.35	4,522.75	66.27	66.23	91.07	-805.35	5,755.53	1,249.92	1,117.52	132.39	9.441	
9,975.19	4,499.75	10,051.54	4,523.49	67.10	67.05	91.09	-805.14	5,830.72	1,249.93	1,115.89	134.04	9.325	
10,000.00	4,499.87	10,076.35	4,523.74	67.37	67.32	91.09	-805.07	5,855.53	1,249.93	1,115.35	134.58	9.287	
10,025.20	4,500.00	10,101.54	4,523.99	67.64	67.60	91.10	-805.00	5,880.72	1,249.94	1,114.80	135.13	9.250	

Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design KALIK 6 FEDERAL COM OFFSETS - MUNDS 1 FEDERAL COM 12H 541565 OW - 12H 541565 - 12H 54

Offset Site Error: 0.00 usft

Survey Program: 100-Gyrodata New 2-16-16, 3908-MWD

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	4.00	0.00	0.00	81.84	65.27	455.09	459.76				
100.00	100.00	96.89	100.89	0.14	0.06	81.82	65.37	454.98	459.65	459.45	0.20	2,249.963	
200.00	200.00	197.17	201.17	0.50	0.20	81.82	65.37	454.75	459.43	458.72	0.71	651.188	
300.00	300.00	296.73	300.73	0.86	0.35	81.83	65.24	454.56	459.22	458.01	1.21	379.312	
371.52	371.52	367.52	371.52	1.12	0.45	81.83	65.27	454.50	459.16	457.60	1.57	293.267	
400.00	400.00	395.70	399.70	1.22	0.49	81.82	65.31	454.50	459.17	457.46	1.71	269.038	
500.00	500.00	493.94	497.94	1.58	0.62	81.83	65.32	454.75	459.42	457.23	2.19	209.359	
600.00	600.00	591.46	595.45	1.94	0.75	81.84	65.33	455.45	460.14	457.45	2.68	171.399	
700.00	699.98	693.11	697.11	2.29	0.89	95.80	65.73	456.26	461.16	457.97	3.18	144.861	
800.00	799.84	791.12	795.11	2.66	1.03	96.38	66.02	457.01	462.51	458.83	3.68	125.725	
900.00	899.45	885.30	889.28	3.02	1.17	97.36	66.00	458.50	465.14	460.96	4.17	111.534	
990.00	988.80	973.01	976.96	3.34	1.29	98.59	66.03	460.64	468.84	464.22	4.62	101.523	
1,000.00	998.70	982.82	986.77	3.38	1.31	98.76	66.03	460.88	469.30	464.64	4.67	100.535	
1,100.00	1,097.78	1,082.04	1,085.95	3.73	1.45	100.36	66.27	463.40	474.14	468.97	5.17	91.712	
1,200.00	1,196.85	1,184.58	1,188.47	4.09	1.60	101.95	66.89	465.61	478.99	473.31	5.68	84.349	
1,300.00	1,295.93	1,286.14	1,290.01	4.45	1.75	103.49	67.38	467.08	483.48	477.29	6.19	78.144	
1,400.00	1,395.00	1,386.25	1,390.12	4.81	1.90	105.02	67.59	468.18	487.95	481.26	6.69	72.895	
1,500.00	1,494.08	1,485.62	1,489.49	5.17	2.04	106.51	67.79	469.14	492.64	485.44	7.20	68.427	
1,600.00	1,593.15	1,587.94	1,591.80	5.53	2.19	107.98	68.32	469.84	497.35	489.64	7.71	64.528	
4,100.00	4,033.11	4,195.65	4,186.29	14.38	6.77	72.37	73.58	394.50	478.56	458.32	20.24	23.647	
4,150.00	4,072.60	4,231.58	4,217.07	14.54	6.84	78.24	72.24	376.01	450.16	429.73	20.43	22.030	
4,200.00	4,110.46	4,261.26	4,241.93	14.72	6.90	83.65	71.71	359.81	423.56	402.87	20.69	20.475	
4,250.00	4,146.60	4,277.84	4,255.40	14.90	6.97	87.16	71.46	350.15	400.04	379.06	20.99	19.062	
4,300.00	4,180.91	4,285.91	4,261.83	15.09	7.00	89.15	71.34	345.28	380.84	359.58	21.26	17.912	
4,350.00	4,213.30	4,288.75	4,264.07	15.28	7.01	90.03	71.29	343.54	366.94	345.46	21.48	17.085	
4,400.00	4,243.69	4,288.09	4,263.56	15.48	7.01	90.02	71.30	343.95	359.07	337.47	21.61	16.619	
4,435.89	4,264.21	4,286.33	4,262.17	15.63	7.00	89.61	71.33	345.03	357.39	335.75	21.64	16.517	CC, ES
4,450.00	4,271.98	4,285.33	4,261.37	15.69	7.00	89.34	71.35	345.64	357.65	336.02	21.63	16.531	
4,500.00	4,298.10	4,280.81	4,257.78	15.90	6.98	88.04	71.42	348.37	362.70	341.13	21.57	16.813	
4,500.29	4,298.25	4,280.78	4,257.75	15.90	6.98	88.04	71.42	348.39	362.75	341.18	21.57	16.816	
4,600.00	4,348.10	4,272.07	4,250.75	16.37	6.95	86.65	71.55	353.57	391.58	370.29	21.30	18.388	
4,700.00	4,398.10	4,265.73	4,245.59	16.88	6.93	85.64	71.64	357.24	441.55	420.59	20.96	21.064	
4,700.29	4,398.25	4,265.71	4,245.57	16.88	6.93	85.64	71.64	357.25	441.72	420.76	20.96	21.073	
4,750.00	4,421.20	4,261.93	4,242.47	17.14	6.91	81.19	71.69	359.41	472.31	451.50	20.81	22.691	

Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design KALIK 6 FEDERAL COM OFFSETS - RED STRIPE 5 FED COM 2H (541224) OW - RS5FEDCOM 2H - R

Offset Site Error: 0.00 usft

Survey Program: 100-MWD+SAG+FDIR

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.00	4,498.38	4,321.00	4,301.00	64.09	14.91	65.86	0.60	5,886.77	589.26	524.66	64.60	9.122	
9,800.00	4,498.88	4,366.30	4,340.77	65.18	15.08	70.33	-1.18	5,908.39	537.41	467.36	70.05	7.672	
9,900.00	4,499.38	4,416.33	4,383.27	66.27	15.28	75.31	-1.37	5,934.75	495.40	419.94	75.46	6.565	
9,975.19	4,499.75	4,458.85	4,417.80	67.10	15.46	79.49	-0.31	5,959.53	471.23	392.08	79.15	5.954	
10,000.00	4,499.87	4,470.77	4,427.20	67.37	15.51	80.65	0.09	5,966.86	464.78	384.56	80.22	5.794	
10,025.20	4,500.00	4,486.00	4,438.96	67.64	15.58	82.12	0.58	5,976.52	459.10	377.86	81.24	5.651	CC, ES, SF

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design KALIK 6 FEDERAL COM OFFSETS - RED STRIPE 5 FEDERAL COM 20H 549230 OW - RS 5 FED COM — **Offset Site Error:** 0.00 usft

Survey Program: 498-MWD+SAG+FDIR, 10137-Projection — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,300.00	4,496.39	4,317.57	4,203.40	59.73	16.24	-33.22	636.12	5,416.47	439.38	394.23	45.15	9.732	
9,400.00	4,496.89	4,366.00	4,234.49	60.82	16.65	-36.10	635.54	5,453.59	382.71	333.74	48.97	7.815	
9,500.00	4,497.39	4,428.00	4,271.89	61.91	17.21	-40.22	634.97	5,503.03	332.17	278.35	53.83	6.171	
9,600.00	4,497.89	4,497.38	4,310.37	63.00	17.88	-45.57	635.61	5,560.72	289.52	229.61	59.91	4.833	
9,700.00	4,498.38	4,573.79	4,347.76	64.09	18.67	-52.12	638.11	5,627.32	257.06	190.08	66.98	3.838	
9,800.00	4,498.88	4,662.08	4,390.63	65.18	19.63	-61.17	641.36	5,704.43	231.01	155.95	75.06	3.078	
9,900.00	4,499.38	4,753.97	4,434.97	66.27	20.69	-72.04	643.62	5,784.87	211.95	129.08	82.86	2.558	
9,975.19	4,499.75	4,822.11	4,462.41	67.10	21.51	-79.28	642.45	5,847.18	202.34	115.26	87.08	2.324	
10,000.00	4,499.87	4,844.09	4,469.45	67.37	21.78	-81.20	641.81	5,867.99	200.13	111.99	88.14	2.271	
10,025.20	4,500.00	4,866.93	4,475.71	67.64	22.07	-82.93	641.11	5,889.94	198.30	109.24	89.06	2.227	CC, ES, SF

Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Offset Design KALIK 6 FEDERAL COM OFFSETS - WRIGHT-FEDERAL 1 502840 OW - 1 502840 - 1 502840 AsDrilled — **Offset Site Error:** 0.00 usft

Survey Program: 100-INC-ONLY — **Offset Well Error:** 0.00 usft

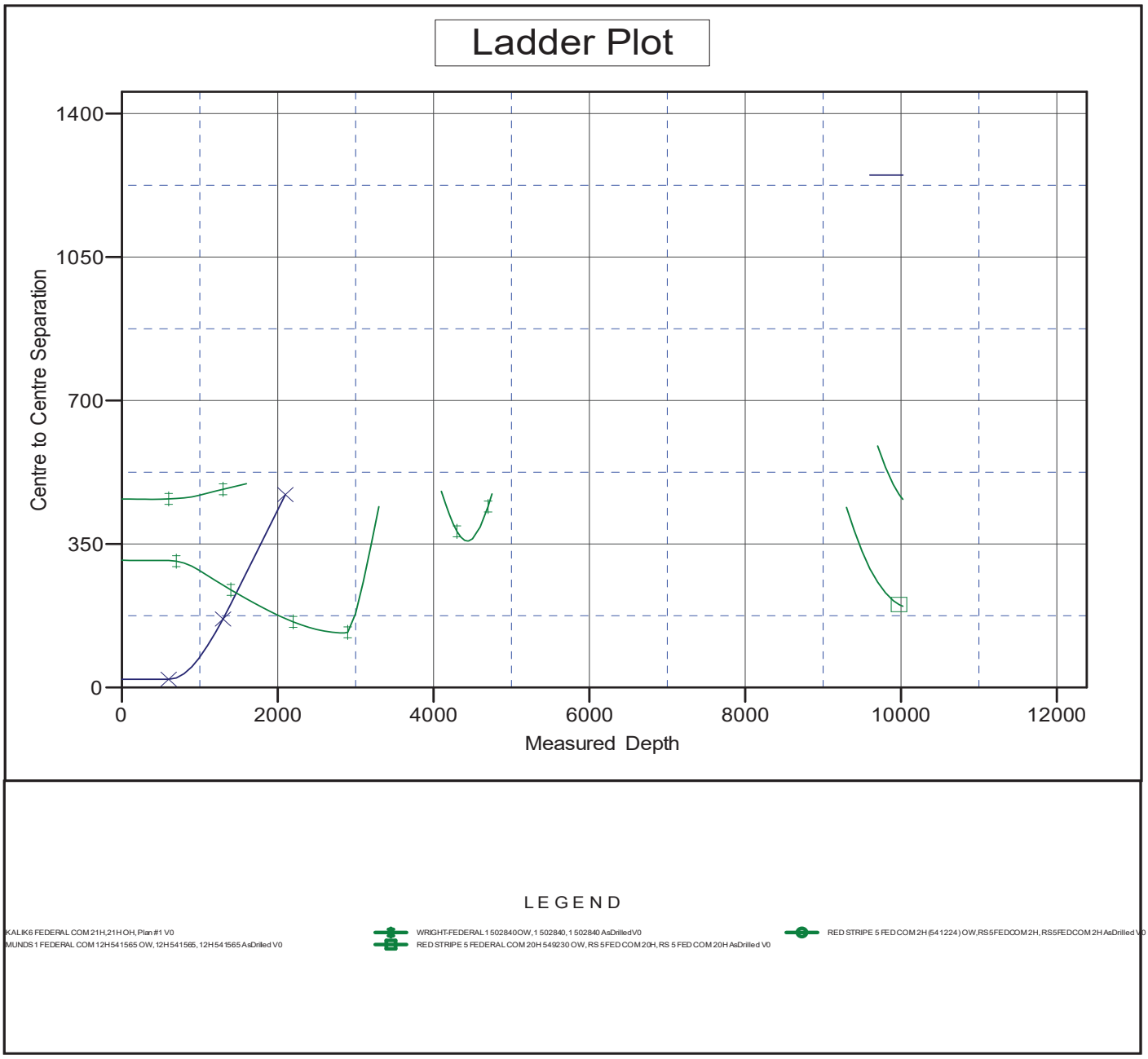
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	23.00	0.00	0.00	11.64	303.53	62.51	310.75				
100.00	100.00	77.00	100.00	0.14	1.34	11.64	303.53	62.51	309.90	308.41	1.49	208.359	
200.00	200.00	177.00	200.00	0.50	3.09	11.64	303.53	62.51	309.90	306.31	3.59	86.297	
300.00	300.00	277.00	300.00	0.86	4.83	11.64	303.53	62.51	309.90	304.21	5.69	54.417	
400.00	400.00	377.00	400.00	1.22	6.58	11.64	303.53	62.51	309.90	302.10	7.80	39.737	
500.00	500.00	477.00	500.00	1.58	8.33	11.64	303.53	62.51	309.90	300.00	9.90	31.295	
600.00	600.00	577.00	600.00	1.94	10.07	11.64	303.53	62.51	309.90	297.89	12.01	25.811	
700.00	699.98	676.98	699.98	2.29	11.82	25.59	303.53	62.51	308.32	294.21	14.11	21.852	
800.00	799.84	776.84	799.84	2.66	13.56	26.06	303.53	62.51	303.61	287.40	16.21	18.726	
900.00	899.45	876.45	899.45	3.02	15.30	26.87	303.53	62.51	295.80	277.49	18.31	16.153	
990.00	988.80	965.80	988.80	3.34	16.86	27.94	303.53	62.51	286.19	265.99	20.20	14.171	
1,000.00	998.70	975.70	998.70	3.38	17.03	28.06	303.53	62.51	284.99	264.58	20.41	13.965	
1,100.00	1,097.78	1,074.78	1,097.78	3.73	18.76	29.40	303.53	62.51	273.06	250.57	22.49	12.141	
1,200.00	1,196.85	1,173.85	1,196.85	4.09	20.49	30.86	303.53	62.51	261.30	236.72	24.58	10.632	
1,300.00	1,295.93	1,272.93	1,295.93	4.45	22.22	32.45	303.53	62.51	249.71	223.05	26.66	9.366	
1,400.00	1,395.00	1,372.00	1,395.00	4.81	23.95	34.20	303.53	62.51	238.34	209.59	28.75	8.290	
1,500.00	1,494.08	1,471.08	1,494.08	5.17	25.68	36.12	303.53	62.51	227.21	196.37	30.84	7.368	
1,600.00	1,593.15	1,570.15	1,593.15	5.53	27.40	38.23	303.53	62.51	216.36	183.43	32.93	6.571	
1,700.00	1,692.23	1,669.23	1,692.23	5.90	29.13	40.56	303.53	62.51	205.83	170.81	35.02	5.878	
1,800.00	1,791.30	1,768.30	1,791.30	6.26	30.86	43.13	303.53	62.51	195.67	158.56	37.11	5.273	
1,900.00	1,890.38	1,867.38	1,890.38	6.62	32.59	45.98	303.53	62.51	185.95	146.75	39.20	4.744	
2,000.00	1,989.45	1,966.45	1,989.45	6.99	34.32	49.12	303.53	62.51	176.74	135.45	41.29	4.280	
2,100.00	2,088.53	2,065.53	2,088.53	7.35	36.05	52.60	303.53	62.51	168.13	124.74	43.39	3.875	
2,200.00	2,187.60	2,164.60	2,187.60	7.72	37.78	56.44	303.53	62.51	160.20	114.71	45.48	3.522	
2,300.00	2,286.68	2,263.68	2,286.68	8.08	39.51	60.64	303.53	62.51	153.06	105.48	47.58	3.217	
2,400.00	2,385.75	2,362.75	2,385.75	8.45	41.24	65.23	303.53	62.51	146.84	97.16	49.68	2.956	
2,500.00	2,484.83	2,461.83	2,484.83	8.81	42.97	70.18	303.53	62.51	141.64	89.87	51.77	2.736	
2,600.00	2,583.90	2,560.90	2,583.90	9.18	44.70	75.46	303.53	62.51	137.59	83.72	53.87	2.554	
2,700.00	2,682.98	2,659.98	2,682.98	9.54	46.43	81.00	303.53	62.51	134.80	78.83	55.97	2.409	
2,800.00	2,782.05	2,759.05	2,782.05	9.91	48.15	86.72	303.53	62.51	133.33	75.27	58.06	2.296	
2,856.78	2,838.31	2,815.31	2,838.31	10.11	49.14	90.00	303.53	62.51	133.11	73.86	59.25	2.247	CC, ES, SF
2,900.00	2,881.12	2,838.00	2,861.00	10.27	49.53	91.33	303.53	62.51	134.75	75.58	59.16	2.278	
3,000.00	2,980.20	2,838.00	2,861.00	10.64	49.53	91.33	303.53	62.51	179.73	133.80	45.94	3.913	
3,100.00	3,079.27	2,838.00	2,861.00	11.00	49.53	91.33	303.53	62.51	257.78	223.54	34.24	7.529	
3,200.00	3,178.35	2,838.00	2,861.00	11.37	49.53	91.33	303.53	62.51	347.27	319.52	27.75	12.515	
3,300.00	3,277.42	2,838.00	2,861.00	11.73	49.53	91.33	303.53	62.51	441.30	417.19	24.11	18.305	

Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to 3689+20 @ 3709.00usft (AKITA)
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: KALIK 6 FEDERAL COM
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.17°

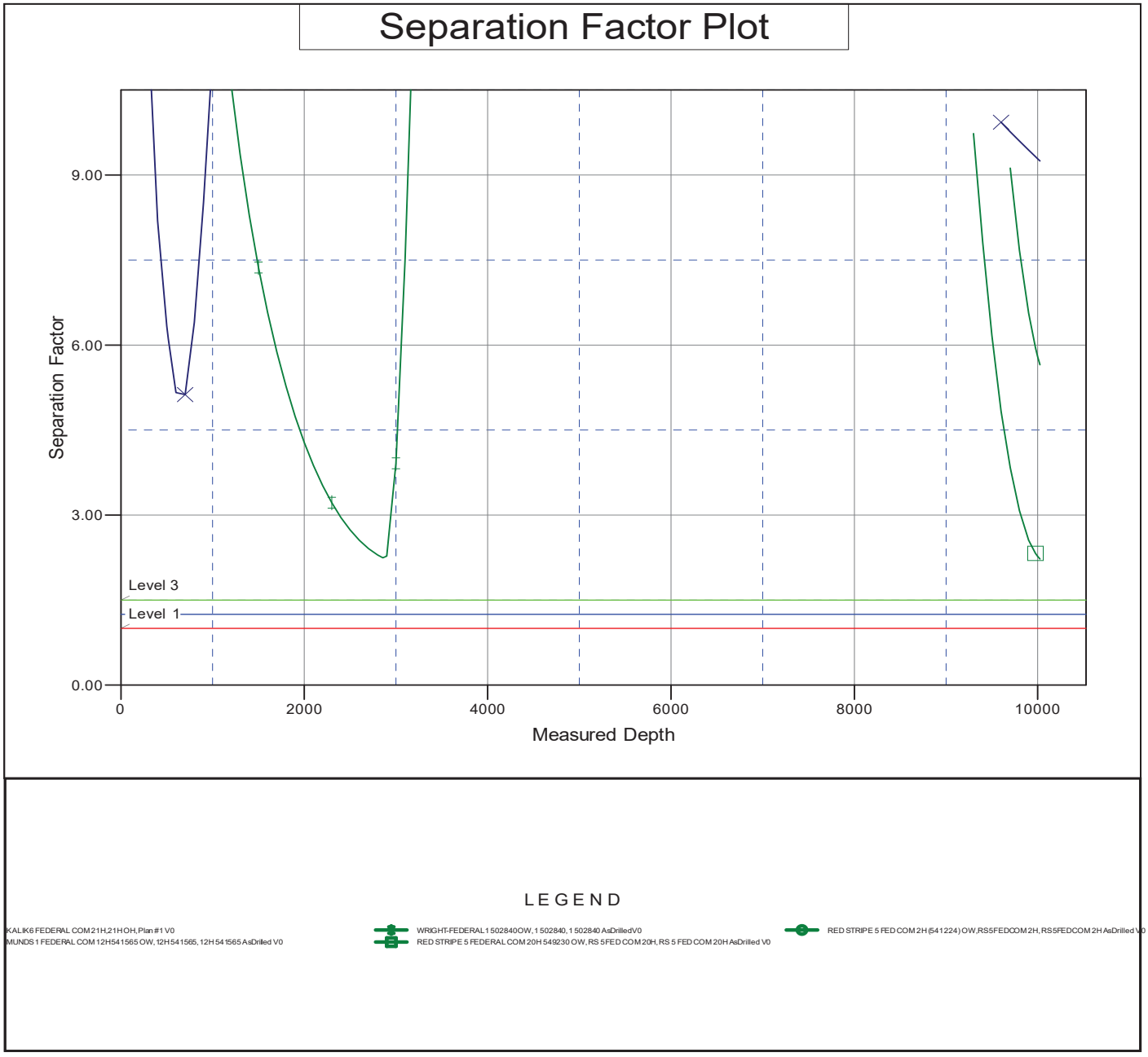


Anticollision Report

Company:	SPUR ENERGY PARTNERS LLC.	**Local Co-ordinate Reference:**	Site KALIK 6 FEDERAL COM
Project:	Eddy County, NM (NAD83) NMEZ Grid	**TVD Reference:**	3689+20 @ 3709.00usft (AKITA)
Reference Site:	KALIK 6 FEDERAL COM	**MD Reference:**	3689+20 @ 3709.00usft (AKITA)
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	KALIK 6 FEDERAL COM 20H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.00 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	20H OH	**Database:**	PRIME_EDM
Reference Design:	Plan #1	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to 3689+20 @ 3709.00usft (AKITA)
Offset Depths are relative to Offset Datum
Central Meridian is -104.3333333

Coordinates are relative to: KALIK 6 FEDERAL COM
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.17°



a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig:
    i. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
b. When the operator proposes to set surface casing with a Spudder Rig:
    i. Notify the BLM when moving in and removing the Spudder Rig.
    ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    iii. BOP/BOPE test to be conducted per 43 CFR 3172.6 as soon as 2nd Rig is rigged up on well.

5. Floor controls are required for 3M or greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller, and will always be operational during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table or the area immediately above the substructure on which the draw works are located (this does not include the doghouse or stairway area).

6. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

Pressure Control

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.6 and API STD 53 Sec. 5.3.

2. 5M or higher systems require an HCR valve, remote kill line, and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    a. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE, and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
    b. The results of the test shall be reported to the appropriate BLM office.
    c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.6(b)(9).
f. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
g. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, no tests shall commence until the cement has had a minimum of 24 hours setup time.
h. The tests shall be done by an independent service company utilizing a test plug, not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

4. If the operator has proposed using a 5,000 (5M) Annular on a 10M BOP:
   a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi.

5. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
   a. Wellhead shall be installed by manufacturer's representatives (submit documentation with subsequent sundry).

 Approval Date: 07/10/2025

b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed, and another wellhead installed.

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

7. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply:
   a. The flex line must meet the requirements of API 16C.

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

Casing and Cement

1. Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

2. On any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. The formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

3. Provide compressive strengths (including hours to reach required 500 pounds compressive strength) prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

4. The surface casing shall be set at a minimum of 25 feet into the Rustler Anhydrite and 80 feet above the salt and cemented to the surface.
    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours (or 24 hours in the Potash Area) or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

5. Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

6. Intermediate casing must be cemented to surface. For medium/high cave/karst, potash, and Capitan Reef, wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

7. The production cement should tie-back at least 200 feet (500 feet in Secretary Potash, surface in R-111-P potash) into previous casing string. Operator shall provide method of verification.

8. Production liner cement should tie-back at least 100 feet into previous casing string. Operator shall provide verification of cement top.

9. In WIPP Areas, cement must come to surface on the first three casing strings.

10. If cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

11. No pea gravel permitted for remedial cement or fall back remedial cement without prior authorization from a BLM petroleum engineer.

12. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

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

 Approval Date: 07/10/2025

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

15. Wait on cement (WOC) for Water Basin:
    a. After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met:
        i. Cement reaches a minimum compressive strength of 500 psi at the shoe
        ii. Until cement has been in place at least 8 hours.
    b. WOC time will be recorded in the driller's log.

16. Medium/High/Critical Cave/Karst Areas:
    a. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
    b. In Critical Cave/Karst Areas cement must come to surface on the first three casing strings.
    c. In Medium and High Cave/Karst Areas, if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
    d. In Critical Cave/Karst Areas, if cement does not circulate to surface on the first three casing strings, the cement on the 4th casing string must come to surface.

Drilling Mud

1. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation and shall be used until production casing is run and cemented.

Waste Material and Fluids

1. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

 Approval Date: 07/10/2025

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

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

Special Requirements

1. Communitization Agreement
    a. The operator will submit a Communitization Agreement to the Santa Fe Office (301 Dinosaur Trail, Santa Fe, NM 87508), at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division.
    b. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
        i. The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
        ii. If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
    c. In addition, the well sign shall include the surface and bottom hole lease numbers.
        i. When the Communitization Agreement number is known, it shall also be on the sign.

2. Unit Wells
    a. The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers.
        i. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.
    b. Commercial Well Determination
        i. A commercial well determination shall be submitted after production has been established for at least six months (this is not necessary for secondary recovery unit wells).

3. Hydrogen Sulfide (H2S)
    a. If H2S is encountered, provide measured values and formations to the BLM.
    b. An H2S area must meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items.

c. An H2S Drilling Plan shall be activated 500 feet prior to drilling into any formation designated as having H2S.
d. Hydrogen Sulfide monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items.

4. Capitan Reef
   a. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following (Use this for 3 string wells in the Capitan Reef, if it is a 4 string well ensure fresh water based mud is used across the Capitan interval):
      i. Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
      ii. Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports.
      iii. The daily drilling report should show mud volume per shift/tour.
      iv. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval.
      v. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

5. Salt Water Disposal Wells
   a. The operator shall supply the BLM with a copy of a mudlog over the permitted disposal interval and estimated in situ water salinity based on open-hole logs.
   b. If hydrocarbons are encountered while drilling, the operator shall notify the BLM.
   c. The operator shall provide to the BLM a summary of formation depth picks based on mudlog and geophysical logs along with a copy of the mudlog and open-hole logs from total depth to top of Devonian.
   d. An NOI sundry with the completion procedure for this well shall be submitted and approved prior to commencing completion work. The procedure will be reviewed to verify that the completion proposal will allow the operator to:
      i. Properly evaluate the injection zone utilizing open-hole logs, swab testing and/or any other method to confirm that hydrocarbons cannot be produced in paying quantities. This evaluation shall be reviewed by the BLM prior to injection commencing.
      ii. Restrict the injection fluid to the approved formation.
      iii. If a step rate test will be run, an NOI sundry shall be submitted to the BLM for approval.

e. If off-lease water will be disposed in this well, the operator shall provide proof of right-of-way approval.

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

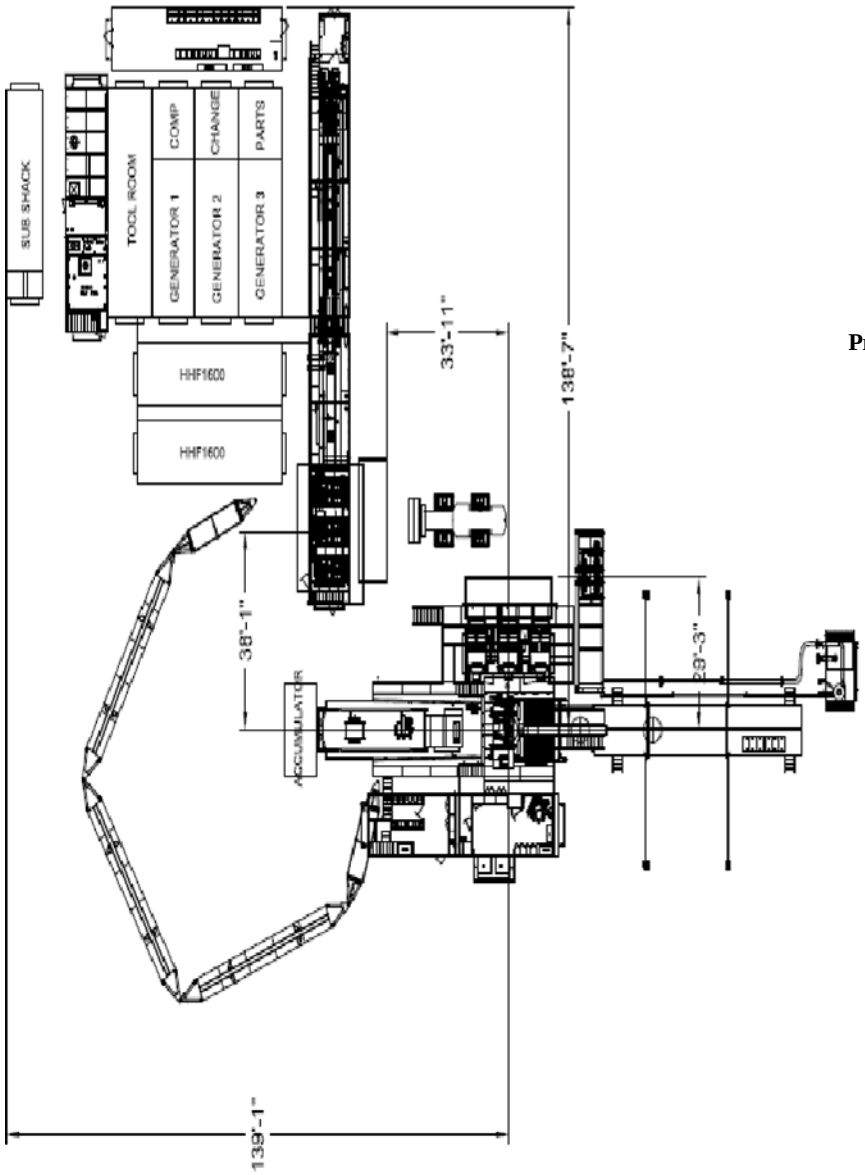
Permian Drilling
Hydrogen Sulfide Drilling Operations Plan
Kalik 6 Federal Com Development

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

1. Escape

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

Secondary Briefing Area



Primary Briefing Area

Exit to road. Caution sign placed here.

N

Secondary Egress

WIND: Prevailing winds are from the Southwest

RIG # 57 1,150 HP Double Mast Drilling Rig

SUBSTRUCTURE
One Piece Step Down
Floor Height: 18' 9" (on 4' pony sub moving system)
Clear Height (beneath rotary beams): 15' 5"
Rotary Capacity: 400,000 lbf
Max Pipe Setback: 400,000 lbf
Note: All floor heights above are based on the substructure sitting on 6" mats & 4' pony sub moving system

MAST
106' telescoping, Drill Line: 1-1/8"
Static Hook Load: 440,000 lbf
Racking Capacity: 18,000' of 4" DP, 12,500' of 5" DP

DRAWWORKS
TSM 850 425,000lbs w/ 10 Lines
Input Power: 1,150 hp AC traction motor
Main Brake: 1,150 hp AC traction motor (Dynamic)
Aux Parking Brake: Eaton brake & drum / band brake system

TOP DRIVE
Tesco EXI 600 AC 350 Ton: Max speed 220 rpm,
Continuous Drill Torque: 30,000 ft-lbs
Max Torque (Make / Break): 45,000 ft-lbs
600 hp AC induction motor & drive system with PLC
250 Ton 5 x 36" Becket Block Assembly

IRON ROUGHNECK
NOV ST-80C Conn Range: 4 ½" to 8 ½"
Spin Speed: 75 rpm nominal on 5" drill pipe
Spin Torque: 1,750 ft-lbs
Maximum Make-up torque: 60,000 ft-lbs
Maximum Break-out torque: 80,000 ft-lbs

ROTARY TABLE
National 27 ½" 500 Ton with hydraulic drive to position tools only
27 ½" Diameter opening

POWER SYSTEM
VFD, MCC, Eaton Drives, Current Power Systems Controls, three Caterpillar C32 gen sets, 1220 BHP.

MUD PUMP #1
HHF1600 Triplex Rated Power: 1600 hp
Stroke: 12"
Input Power: 1500 hp AC traction motor
Pressure Rating: 5000 psi

MUD PUMP #2
HHF1600 Triplex Rated Power: 1600 hp
Stroke: 12"
Input Power: 1500 hp AC traction motor
Pressure Rating: 5000 psi

MUD TANKS
Two Tank system w/ 1200 bbls total capacity
Shakers: Three MI Swaco Mongoose 4 panel dual motion
Mud Gas Separator: MI Swaco 4' OD x 12' tall
Pill Tank: 54 bbls

MUD SYSTEM
5000 psi Max Pressure
5" Main plumbing and standpipe

SCALPING TANK
Main Tank: 186 bbls capacity
Trip Tank: 24 bbls capacity
Shakers: Three NOV Venom shakers dual motion

BOP (NACE)
11" x 5000 psi WP Spherical Annular
11" x 5000 psi WP Double Ram
11" x 5000 psi WP Single Ram (Optional)

MANIFOLD
3-1/8" 5,000 psi c/w two 3 1/8" manual chokes

ACCUMULATOR
CTI: 160 gal 6 station 3000 psi, c/w N2 Backup & electric triplex pump

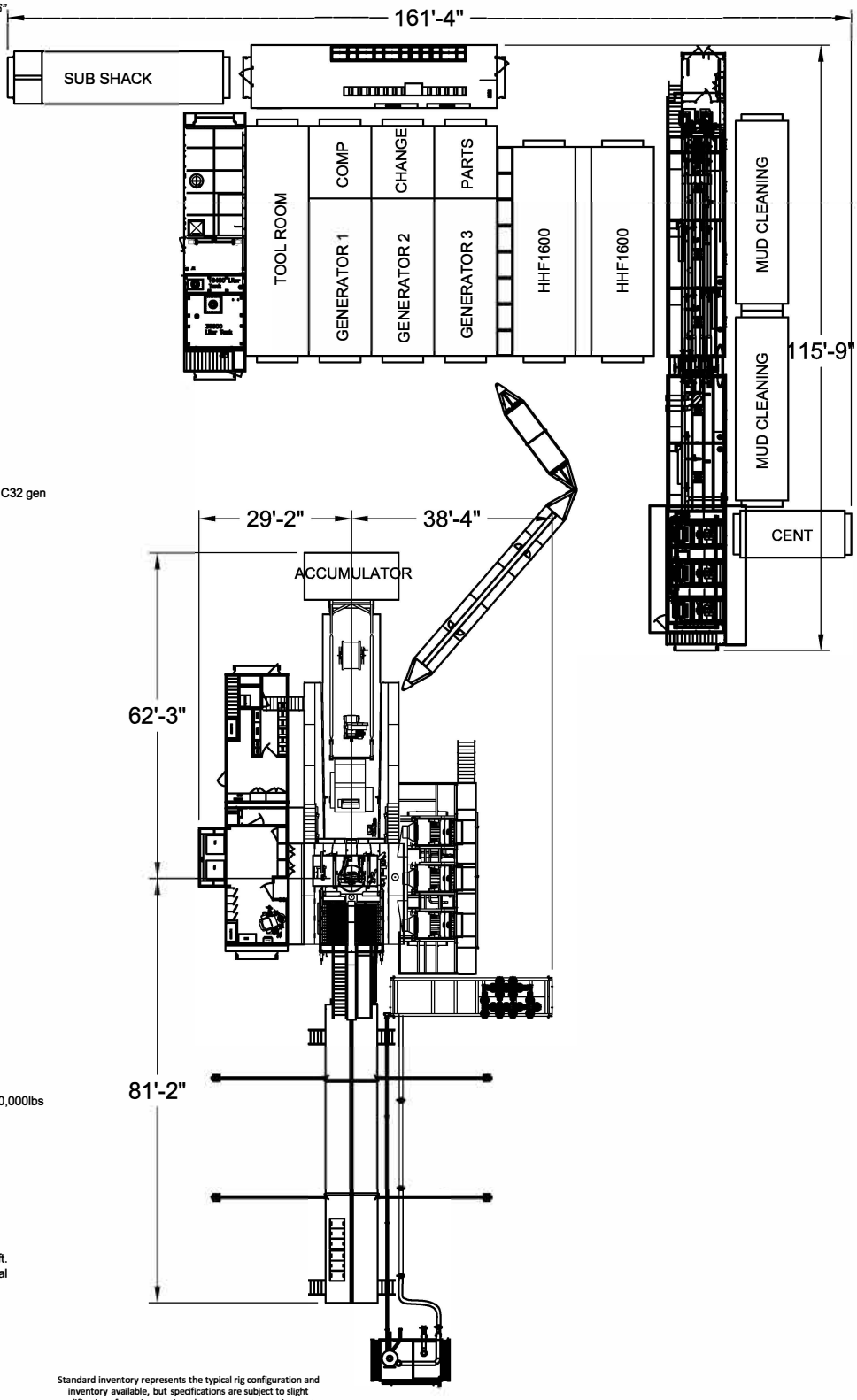
CATWALK
Ja-co Power Catwalk, tubular max length 47' 6", max OD 13 ⅝", max weight 10,000lbs

TUBULARS
Drill Pipe: Supplied as needed, per availability
Drill Collars & heaviwate: Supplied as needed, per availability

MISC.
Water Tank: 409 bbls; Fuel Tank 189 bbls; Screw Compressor
Boiler: 125 hp with Full Winterization

MOVING SYSTEM:
Walking beam hydraulic pony sub moving system for linear motion & side shift. 350' of Utility Suitcase style [50' lengths] connection for hydraulic and electrical supply.

TOOL/ STORAGE/ CAMP
Parts Storage Room and Tool House Room
Rig Manage Trailer: 14' x 44' skid mounted



Standard inventory represents the typical rig configuration and inventory available, but specifications are subject to slight modifications from time to time due to customer requirements.

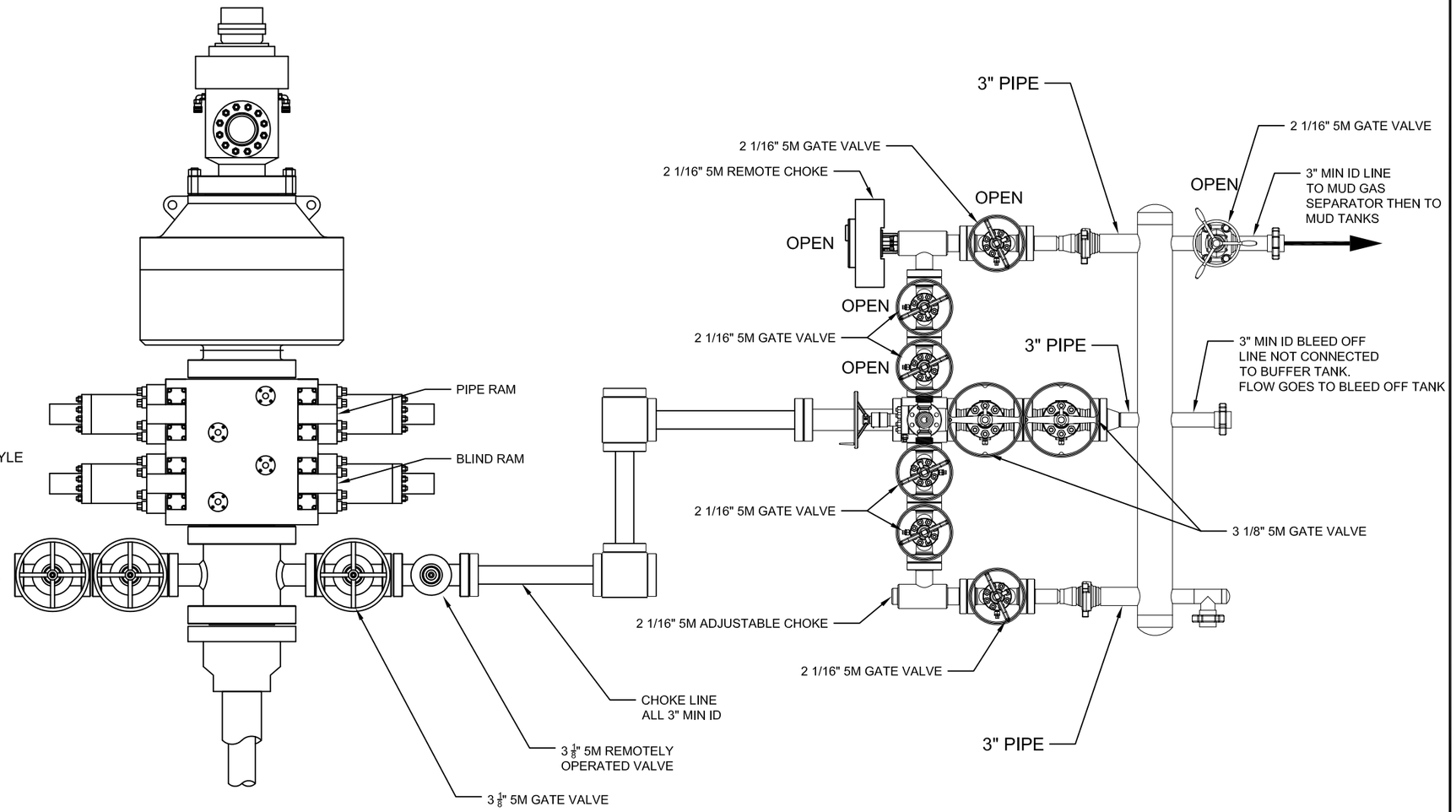
All ratings quoted herin are manufacturer specifications. AKITA's normal operating parameters are 90% of manufacturer mast ratings and 80% of mud pump manufacturer pressure rating. Operation of rig equipment beyond these parameters requires approval from AKITA field office management.

TRANSCEND RIG 4	Contractor Specification
Make	Schram
Model	TXD 130
Year of Manufacture	2006
Truck Mounted	YES
Rated Drilling Depth	130,000# hook load
Rated Depth with Tubing	
Derrick Height	69’ 9’’
Derrick Type	Telescoping Hydraulic
Derrick Capacity	130,000#
Elevators	N/A
Drawworks	760 HP Detroit
Wire Diameter	Hydraulic
Workfloor Max Height	8’
Tongs	Hydraulic Iron Roughneck
Slips	Manual Slips
Included Tubing Handling Tools	• 13 3/8’’ handling tools
Included Rod Handling Tools	85jts of 4.5’’ drill pipe
BOP Class Compatibility	
Weight Indicator	Hydraulic
Rig Safety Equipment	Eye wash station, fire extengushers, wind sock
Pad Size Requirements/Limitations	60’ x 60’
Guy Line Spacing	N/A
Other Supplied Rig Equipment 1- F800 pump 1- Pill pit 80bbl 1- 400 bbl mud mix 1- Shaker 150mesh 1- 500 bbl fresh water frac tank	Standard Rig Hand Tools: • (2) 36” pipe wrenches • (2) 24” pipe wrenches • (2) 18” pipe wrenches • (1) 24” crescent wrench • (2) 12” crescent wrenches • (1) 4 lb shop hammer • (1) 12 lb sledge hammer • (1) 4 foot pry bar • Vehicles for Contractor personnel • Air Impact Wrench with Sockets • Mud Scales (as needed)

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
-
-
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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

POWERING PROGRESS™

MTR DATA BOOK

CL2013

CUSTOMER: GATES CANADA INC
DATE: 12/19/2017
Purchase Order: D235455 (PO 45750)
Sales Order #: 509128
Product Description: 5K 3 1/2 in. 17 FT. Fire Rated Choke & Kill Gates Hose Assembly c/w 3 1/8 5K Flange with Safety Clamps & Slings Attached

Hose S/N: H-121917-14
PART NUMBER: FR5K3.517.0CK31/85KFLG S/C

CONTENTS INCLUDED

GMCO FITTINGS

17-309-1	INSERT STEM
15-095-1A	FERRULE

3 1/8 in. 5K FIXED FLANGE X 3 1/8 in. 5K FLOAT FLANGE

V4131	FIXED FLANGE
V5054	FLOAT FLANGE

WELDING SPECIFICATIONS
Certification and Procedure for welding

NDE RESULTS
1622371-03/1622371-01 Ultrasonic Test Results and Imaging

Safey Clamps
34145/34144

TEST CHART
Chart Recording of Hydrostatic Test

TEST CERTIFICATE
Document Product Details & Positive Results of Hydrostatic Testing

CERTIFICATE OF CONFORMANCE
A Declaration of the conformity with the type approval

IMAGES
Images of the product prior to shipping.

PACKING LIST
Details of Shipping Contents, Dimensions and Weights

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr. Suite 190
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

PRESSURE TEST CERTIFICATE

Customer:	GATES CANADA INC	Test Date:	12/19/2017
Customer Ref.:	D235455 (PO 45750)	Hose Serial No.:	H-121917-14
Invoice No.:	509128	Created By:	Cristian Rivera

Product Description:	5K 3 1/2 in. 17 FT. Fire Rated Choke & Kill c/w 3 1/8 5K Flange with Safety Clamps & Slings Attached

End Fitting 1:	3 1/8 in. 5K FIXED FLG	End Fitting 2:	3 1/8 in. 5K FLOAT FLG
Oracle Star No.:	68903550-9725917	Assembly Code:	15M5019042016H-121917-14
CUSTOMER P/N:	FR5K3.517.0CK31/85KFLG S/C	Test Pressure:	7,500 psi.
		Working Pressure:	5,000 psi.

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies) or GTS-04-048 (15K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA management system.

Quality:	QUALITY	Production:	PRODUCTION
Date :	8/5/2021	Date :	8/5/2021
Signature :		Signature :	

F-PRD-005B

Revision 6_05032021

BLACK GOLD®

GATES ENGINEERING & SERVICES NORTH AMERICA
7603 Prairie Oak Dr.
Houston, TX. 77086

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER:	GATES CANADA INC
CUSTOMER P.O.#:	D235455 (PO 45750)
PART DESCRIPTION:	FR5K3.517.0CK31/85KFLG S/C
PART DESCRIPTION:	5K 3 1/2 in. 17 FT. Fire Rated Choke & Kill c/w 3 1/8 5K Flange with Safety Clamps & Slings Attached
SALES ORDER #:	509128
QUANTITY:	1
SERIAL #:	H-121917-14

SIGNATURE: O Rivera

TITLE: QUALITY ASSURANCE

DATE: 8/5/2021

Gates E&S

North America

7603 Prairie Oak dr.

Houston,TX

Hydrostatic Test

Customer= GATES CANADA

Date of test= 12/19/17

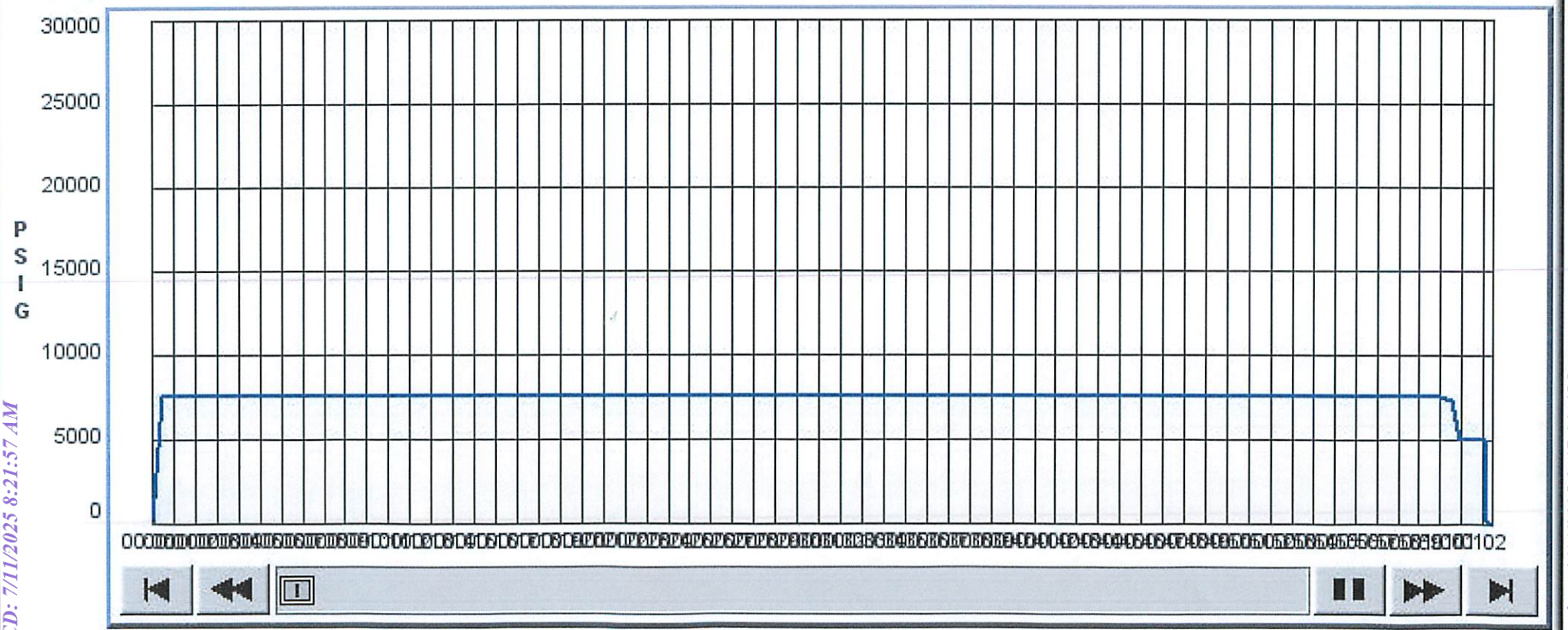
Serial # = H-121917-13,-14

Description = 3.5 5K 3 1/8 FLG 5K

Technician= CHRIS OLIVO

12/19/2017 16:53:26

17:55:52



Edwards Fabrication

1385 Hwy. 35 Bypass S.
P.O. Box 2350
Rockport, TX 78381

O: (361) 790-7910
F: (361) 790-7927

tedwards@edwardsfabrication.com
www.edwardsfabrication.com

CERTIFICATE OF TEST

Client:
Gates E & S North America
134 44th Street
Corpus Christi, TX 78405

Purchase Order: 1592198/0

Certificate Number				Date of Examination
34145				04/27/17
ID#	**Part Number**	**Description**	**SWL***	**Proofload**
34145	E3.5S	3.5" E Safety Clamp	6016 lbs.	12031 lbs.

The Safety Clamp unit identified on this certificate has been load tested completely assembled; including the clamp body, (2) 3/4" shackles, 5/8" x 48" wire rope sling and anchor tab. Thus, all components are tested at the "Proof" load. Do not disassemble. Do not interchange any part or parts of this tested unit with parts of other Safety Clamp units. DO NOT WELD, CUT, ADD-TO, TAKE AWAY ANY COMPONENTS OR MAKE ANY MODIFICATION TO THIS CLAMP UNIT. Doing so voids this test certificate.

Cutting/Removing either one or both stainless steel Tamper-proof hardware cables renders this Test Certificate VOID.

** Safe Work Load*

THIS PRODUCT IS MANUFACTURED IN THE U.S.A.

We hereby verify that the above information is correct
as contained in the records of Edwards Fabrication L.L.C.

ISO 9001:2008
BUREAU VERITAS
Certification

Edwards Fabrication L.L.C. is certified as having a Quality Management System.

Thomas F. Edwards
President
Edwards Fabrication L.L.C.

Edwards Fabrication...

1385 Hwy. 35 Bypass S.
P.O. Box 2350
Rockport, TX 78381

O: (361) 790-7910
F: (361) 790-7927

tedwards@edwardsfabrication.com
www.edwardsfabrication.com

CERTIFICATE OF TEST

Client:
Gates E & S North America
134 44th Street
Corpus Christi, TX 78405

Purchase Order: 1592198/0

Certificate Number				Date of Examination
34144				04/27/17
ID#	**Part Number**	**Description**	**SWL***	**Proofload**
34144	E3.5S	3.5" E Safety Clamp	6014 lbs.	12027 lbs.

The Safety Clamp unit identified on this certificate has been load tested completely assembled; including the clamp body, (2) 3/4" shackles, 5/8" x 48" wire rope sling and anchor tab. Thus, all components are tested at the "Proof" load. Do not disassemble. Do not interchange any part or parts of this tested unit with parts of other Safety Clamp units. DO NOT WELD, CUT, ADD-TO, TAKE AWAY ANY COMPONENTS OR MAKE ANY MODIFICATION TO THIS CLAMP UNIT. Doing so voids this test certificate.

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THIS PRODUCT IS MANUFACTURED IN THE U.S.A.

We hereby verify that the above information is correct
as contained in the records of Edwards Fabrication L.L.C.

ISO 9001:2008
BUREAU VERITAS
Certification

Edwards Fabrication L.L.C. is certified as having a Quality Management System.

Thomas F. Edwards
President
Edwards Fabrication L.L.C.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

ACKNOWLEDGMENTS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 484107
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☐	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 484107

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 484107
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
schapman01	Cement is required to circulate on both surface and intermediate1 strings of casing.	7/11/2025
schapman01	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	7/11/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	8/16/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	8/16/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	8/16/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	8/16/2025