Form 3160-3 (June 2015) UNITED STATES		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018				
DEPARTMENT OF THE INTE BUREAU OF LAND MANAGE		5. Lease Serial No. NMNM127446				
APPLICATION FOR PERMIT TO DRIL		6. If Indian, Allotee or Tri	ibe Name			
Ia. Type of work: I DRILL	TER	7. If Unit or CA Agreeme	nt, Name and No.			
1b. Type of Well: Image: Oil Well Image: Gas Well Other		8. Lease Name and Well N	<u>×</u> No.			
Ic. Type of Completion: Hydraulic Fracturing Single	Zone Multiple Zone	DONKEY KONG 1-FED				
2. Name of Operator CENTENNIAL RESOURCE PRODUCTION LLC (37216)	5) N	9 API-Well No.	45680			
	Phone No. (include area code)	10/Field and Pool, of Exp QJO CHISO, BONE SP				
 Location of Well (Report location clearly and in accordance with a At surface NWSE / 2090 FSL / 1416 FEL / LAT 32.332125 / At proposed prod. zone NWNE / 100 FNL / 2178 FEL / LAT 3 	/ LONG -103.419801	11. Sec., T. R. M. or Blk. SEC 17 T235 / R34E / I				
 14. Distance in miles and direction from nearest town or post office* 24.3 miles 	Control Long - L	12. County or Parish LEA	13. State NM			
		g,Unit dedicated to this we				
18. Distance from proposed location* 19.	Proposed Depth 20/BLM/ 000 feet / 17856 feet FED: NN	BIA Bond No. in file IB001471				
3365 feet 09/0	Approximate date work will start* 04/2019	23. Estimated duration25 days				
The following, completed in accordance with the requirements of Ons (as applicable)		lydraulic Fracturing rule pe	r 43 CFR 3162.3-3			
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover the operation Item 20 above).	s unless covered by an exist	ing bond on file (see			
3. A Surface Use Plan (if the location is on National Forest System Lau SUPO must be filed with the appropriate Forest Service Office)	nds, the 5. Operator certification. 6. Such other site specific infor BLM.	mation and/or plans as may l	be requested by the			
25. Signature (Electronic Submission)	Name (Printed/Typed) Kanicia Castillo / Ph: (720)499-153	Date 10/2	24/2018			
Title Sr. Regulatory Analyst						
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 02/2	28/2019			
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD					
Application approval does not warrant or certify that the applicant hole applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those rights	in the subject lease which v	would entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i of the United States any false, fictitious or fraudulent statements or rep			partment or agency			
	D WITH CONDITIONS	Ke 10611°	1			
(Continued on page 2)		*(Instruc	tions on page 2)			

(Continued on page 2)

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CENTENNIAL RESOURCE PRODUCTION LLC
LEASE NO.:	NMNM127446
WELL NAME & NO.:	DONKEY KONG 1 FED COM 503H
SURFACE HOLE FOOTAGE:	2090'/S & 1416'/E
BOTTOM HOLE FOOTAGE	100'/N & 2178'/E
LOCATION:	SECTION 1, T23S, R34E, NMPM
COUNTY:	LEA

Potash	• None	C Secretary	
Cave/Karst Potential	C Low	Medium	C High
Variance	C None	• Flex Hose	Other
Wellhead	Conventional	C Multibowl	
Other	□4 String Area	Capitan Reef	□ WIPP

A. Hydrogen Sulfide

1. Hydrogen Sulfide (H2S) 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 Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The **13 3/8**" surface casing shall be set at approximately **1850**' (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
 - a. If cement does not circulate to 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 6 hours after pumping cement, ideally between 8-10 hours after completing the cement job.
 - b. WOC time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 psi</u> compressive strength, whichever is greater. This is to include the lead cement.
 - c. If cement falls back, remedial cementing will be done prior to drilling out that string.
 - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

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Intermediate casing must be kept at least 1/3 fluid filled to meet BLM Collapse Requirements.

- 2. The minimum required fill of cement behind the 9 5/8" intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 - Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 3. The minimum required fill of cement behind the 5-1/2" production casing is:
 - Cement should tie-back at least **50 feet above Capitan Reef**. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by

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the New Mexico Oil Conservation Division. 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.

- 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.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

JJP02262019

GENERAL REQUIREMENTS

- 1. The BLM is to be notified in advance for a representative to witness:
 - a. Spudding well (minimum of 24 hours)
 - b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
 - c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. 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 Spudder Rig

- Notify the BLM when moving in and removing the Spudder Rig.
- 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.
- BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 3. 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 be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log (one log per well pad is acceptable) 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.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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- 4. 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.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. 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.
- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires 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.
- 4. 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.

Page 5 of 8

- 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. 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.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. 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).
 - b. 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, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
 - d. 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.
 - e. 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.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The

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test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.

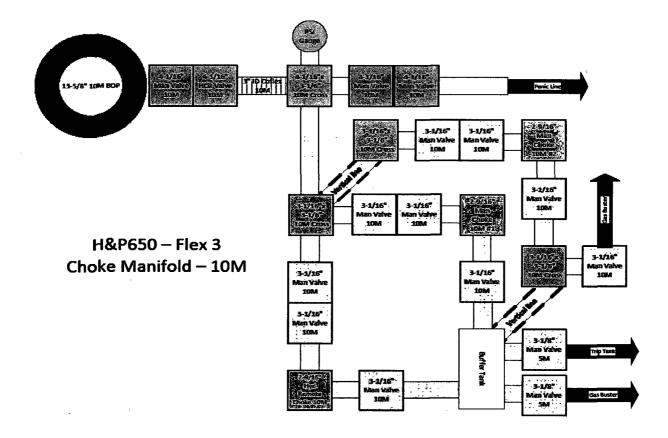
g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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.

D. 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 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.







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



Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Kanicia Castillo

Signed on: 10/24/2018

Title: Sr. Regulatory Analyst

Street Address: 1001 17th Street, Suite 1800

State: CO

State:

City: Denver

Zip: 80202

Phone: (720)499-1537

Email address: kanicia.castillo@cdevinc.com

Field Representative

Representative Name:

Street Address:

City:

Zip:

Phone:

Email address:



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

Application Data Report

and the second

03/05/2019

1

APD ID: 10400034555	Submissio	on Date: 10/24/201	8 Highlightedidata
Operator Name: CENTENNIAL RESOURCE	PRODUCTION LLC		reflects the most
Well Name: DONKEY KONG 1 FED COM	Well Numl	ber: 503H	recent changes Show Final Text
Well Type: OIL WELL	Well Work	Type: Drill	
Section 1 - General	·····		
APD D: 10400034555	Tie to previous NOS?		Submission Date: 10/24/2018
BLM Office: CARLSBAD	User: Kanicia Castillo	Title:	: Sr. Regulatory Analyst
Federal/Indian APD: FED	ls the first lease penetra		n Federal or Indian? FED
Lease number: NMNM127446	Lease Acres: 320.44	•	
Surface access agreement in place?	Allotted?	Reservation:	
Agreement in place? NO	Federal or Indian agree	ment:	
Agreement number:	-		
Agreement name:			
Keep application confidential? YES			
Permitting Agent? NO	APD Operator: CENTEN	INIAL RESOURCE	PRODUCTION LLC
Operator letter of designation:			
Operator Info			
Operator Organization Name: CENTENNIA		ON LLC	
Operator Address: 1001 17th Street, Suite 1	800	7im. 90202	
Operator PO Box:		Zip: 80202	
Operator City: Denver State:	co		
Operator Phone: (720)499-1400			
Operator Internet Address:			
Section 2 - Well Informa	tion		
Well in Master Development Plan? EXISTIN	G Mater Develop	ment Plan name:	Donkey Kong Pad
Well in Master SUPO? NO	Master SUPO	name:	
Well in Master Drilling Plan? NO	Master Drilling	Plan name:	
Well Name: DONKEY KONG 1 FED COM	Well Number:	503H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: O SPRING SOUT		Pool Name: OJO CHISO; BONESPRING,S

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

Describe ot	her minerals:			
is the propo	sed well in a Helium produ	uction area? N	Use Existing Well Pad? YI	ES New surface disturbance? N
Type of Wel	I Pad: MULTIPLE WELL		Multiple Well Pad Name:	Number: 601H
Well Class:	HORIZONTAL		DONKEY KONG Number of Legs: 1	
Well Work T	ype: Dri ll			
Well Type: (DIL WELL			
Describe W	ell Type:			
Well sub-Ty	pe: INFILL			
Describe su	b-type:			
Distance to	town: 24.3 Miles	Distance to ne	arest well: 30 FT Di	stance to lease line: 1356 FT
Reservoir w	ell spacing assigned acres	s Measurement:	: 240.03 Acres	
Well plat:	Donkey_Kong_1_Fed_Co	m_503H_Lease_	Plat_20180925161646.pdf	
	Donkey_Kong_1_Fed_Co	m_503H_Plat_20	0180925161650.pdf	
Well work st	tart Date: 09/04/2019		Duration: 25 DAYS	
م				

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number: 23782

Vertical Datum: NAVD88

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL			141	FEL	23S	34E	1	Aliquot	32.33212	-	LEA			Ś			0	0
Leg	0		Ô					NWSE	5	103.4198 01		MEXI CO	MEXI CO			5		
#1										01		00	00	:				
КОР	209	FSL	135	FEL	23S	34E	1	Aliquot	32.33392	-	LEA	NEW	NEW	3	STATE	0	933	972
Leg	Ø		6					SWNE	6	103.4222		MEXI	MEXI			636	2	77
#1										68		co	co			2		
PPP	254	FAIL	217	FEL	23S	34E	1	Aliquot	32.33392	-	LEA	NEW	NEW	P	NMNM	ia.	108	1103
Leg	0		C.					SWNE	6	103.4222		MEXI	MEXI		127446		60	CQ
#1										68		со	со			5		

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	100	IFRIÈ.	217 6	FEL	225	34E	36	Aliquot NWNE	32.35514 3	- 103.4222 29	LEA	NEW MEXI CO	MEXI	S.	STATE	100 100 100	1781 Sð	103 00
BHL Leg #1	<u> 100</u> .	FNL	217 3	FEL	22S	34E	36	Aliquot NWNE	32.35514 3	- 103.4222 29	LEA	NEW MEXI CO	NEW MEXI CO	16. LEC	STATE	698	178 53	103 : 00



BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

03/05/2019

APD ID: 10400034555

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

Well Work Type: Drill

Submission Date: 10/24/2018

Highlighted data eflects the most recent changes

Show Final Text

Well Type: OIL WELL

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth:	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER	- 4039	1160	1130	SANDSTONE	NONE	No - '6
2	CARITAN REEF		4530	4600	OTHER: CAREONATE	USEARME WANTER	No
3	EELL CANVON	-7876	6896	5409	SANDSTONE	NATURAL CAS, OL	No
4	CHENRY CANYON	-3105	6116	6200	SANDSTONE	NATURAL CAS _I CIL	Ng .
5	ERUSHY CANYON	-9898	7894	7490	SWNDSTONE	NATURAL GAS, OIL	No
6	Bone Carne Lime	-90707	6773	6319	CINTER : CARBOMATE	MATUMAL BAS, ON	Ne ,
7	ANALON SAND	41208	CZTU	CUAD	<u>Share</u>	NATILITAL CAS,CO2,CIL	No
8	PIRST COME SPRING CAND	-11768	0794	0800	SANDSTOME	MATURAL CAS, OIL	No -
9	EONE SPINING 2ND	-11269	8030	10300	SHALE,OTHER : CARDONATE	NATURAL CAS, CIL	Vça

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 10300

Equipment: The BOP and related equipment will meet or exceed the requirements of a 5M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematic. A. Casinghead: 13 5/8" - 5,000 psi SOW x 13" - 5,000 psi WP Intermediate Spool: 13" - 5,000 psi WP x 11" - 5,000 psi WP Tubinghead: 11" - 5,000 psi WP x 7 1/16" - 15,000 psi WP B. Minimum Specified Pressure Control Equipment • Annular preventer • One Pipe ram, One blind ram • Drilling spool, or blowout preventer with 2 side outlets. Choke side will be a 3-inch minimum diameter, kill line shall be at least 2-inch diameter • 3 inch diameter choke line • 2 - 3 inch choke line valves • 2 inch kill line • 2 chokes with 1 remotely controlled from rig floor (see Figure 2) • 2 - 2 inch kill line valves and a check valve • Upper kelly cock valve with handle available • When the expected pressures approach working pressure of the system, 1 remote kill line tested to stack pressure (which shall run to the outer edge of the substructure and be unobstructed) • Lower kelly cock valve with handle available • Safety valve(s) and subs to fit all drill string connections in use • Inside BOP or float sub available • Pressure gauge on choke manifold • All BOPE connections subjected to well pressure shall be flanged, welded, or clamped • Fill-up line above the uppermost preventer. C. Auxiliary Equipment • Audio and visual mud monitoring equipment shall be placed to detect volume changes indicating loss or gain of circulating fluid volume. (OOS 1, III.C.2) • Gas Buster will be used below intermediate casing setting depth. • Upper and lower kelly cocks with handles, safety valve and subs to fit all drill string connections and a pressure gauge installed on choke manifold.

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

Requesting Variance? YES

Variance request: Centennial Resource Production, LLC hereby requests to use a flex hose on the choke manifold for the Donkey Kong 1 Fed Com 503H well.

Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13" surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 50% of its working pressure. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. • A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. • If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. • The BLM office will be provided with a minimum of four (4) hours' notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator will be used. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible

Choke Diagram Attachment:

Choke_Diagram_20180926121203.pdf

BOP Diagram Attachment:

HP650_BOP_Schematic_CoFlex_Choke_5K_2019_1_29_20190130081723.pdf

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
	CONDUCT OR	26	20.0	NEW	API	N	0	120	0	120	3365	3245	120	H-40		other - Weld						
2	SURFACE	17.5	13.375	NEW	API	N	0	1850	0	1850	3365	1515	1850	J-55		OTHER - BTC	1.24	2.99	DRY	8.46	DRY	8.46
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5200	0	5200	3365	-1835	5200	J-55	40	LTC	1.35	1.46	DRY	2.5	DRY	3.03
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	9832	0	9727	3365	-6362	9832	P- 110		other - TMK up DQX	2.2	2.5	DRY	3.29	DRY	3.29
	PRODUCTI ON	8.5	5.5	NEW	API	N	9832	17878	9727	10300	-6362	-6935	8046	P- 110		OTHER - TMK UP DQX	2.08	2.36	DRY	55.9 3	DRY	55.9 3

Section 3 - Casing

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

Casing Attachments

 Casing ID: 1
 String Type:CONDUCTOR

 Inspection Document:

 Spec Document:

 Tapered String Spec:

 Casing Design Assumptions and Worksheet(s):

 Casing ID: 2
 String Type:SURFACE

 Inspection Document:

 Spec Document:

 Tapered String Spec:

 Casing ID: 2
 String Type:SURFACE

 Inspection Document:

 Spec Document:

 Tapered String Spec:

 Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20180906105148.pdf

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20180906105200.pdf

Well Number: 503H

Casing Attachments

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20181024101750.pdf

Casing ID: 5 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20180906105120.pdf

TMK_UP_DQX_5.5_x_20_P110_SPEC_20190130082218.pdf

Section	Section 4 - Cement													
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives			
PRODUCTION	Lead		0	0	0	0	0	0		0	0			

CONDUCTOR	Lead	0	120	121	1.49	12.9	181	Gr	rout	Bentonite 4% BWOC,
										Cellophane #/sx, CaCl2
				:						2% BWOC.

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1350	1078	1.74	13.5	1875	100	Class C Premium	Premium Gel Bentonite 4%, C-45 Econolite 0.25%, Phenoseal 0.25#/sk, CaCl 1%, Defoamer C-41P 0.75%
SURFACE	Tail		1350	1850		1.34	14.8	695	100	Class C Premium	C-45 Econolite 0.10%, CaCl 1.0%
INTERMEDIATE	Lead		0	4700		3.44	10.7	S909)	150	TXI Lightweight	Salt 1.77/sk, C-45 Econolite 2.25%, STE 6.00%, Citric Acid 0.18%, C-19 0.10%, CSA-1000 0.20%, C- 530P 0.30%, CTB-15 LCM 7#/sk, Gyp Seal 8#/sk
INTERMEDIATE	Tail		4700	5200	1441	1.33	14.8	188	20	Class C Premium	C-45 Econolite 0.10%, Citric acid 0.05%, C503P 0.25%
PRODUCTION	Lead		0	9832	CCS C	3.41	10.6	2234	30	TXI Lightweight	Salt 8.98#/sk, STE 6.00%, Citric acid 0.20%, CSA-1000 0.23%, C47B 0.10%, C- 503P 0.30%
PRODUCTION	Tail		9832	1787 8	1053	1.24	14.2	2204 444	25	50:25:25 Class H: Poz: CPO18	Citric acid 0.03%, CSA- 1000 0.05%, C47B 0.25%, C-503P 0.30%

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a diesel emulsified brine fluid to inhibit salt washout and prevent severe fluid losses. The production hole will employ oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Circulating Medium Table

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Ha	Viscosity (CP)	Salinity (ppm)	Fittration (cc)	Additional Characteristics
5200	1787 8	OTHER : Brine/OBM	8.8	10			:				
0	1850	OTHER : Fresh Water	8.6	9.5							
1850	5200	OTHER : Brine	9	10							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD (Gamma ray logging) from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

GR

Coring operation description for the well:

n/a

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5356

Anticipated Surface Pressure: 3090

Anticipated Bottom Hole Temperature(F): 170

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Donkey_Kong_503H_H2S_Plan_20181024102603.docx

Well Name: DONKEY KONG 1 FED COM

Well Number: 503H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Donkey_Kong_1_Fed_Com_503H_Plan_20181024102739.pdf

Other proposed operations facets description:

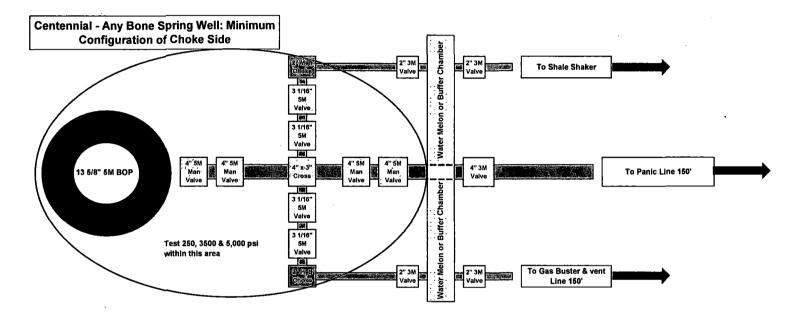
We are planning on using spudder rig to preset surface casing. Gas Capture Plan attached.

Other proposed operations facets attachment:

Donkey_Kong_Gas_Capture_Plan_20181024102811.pdf

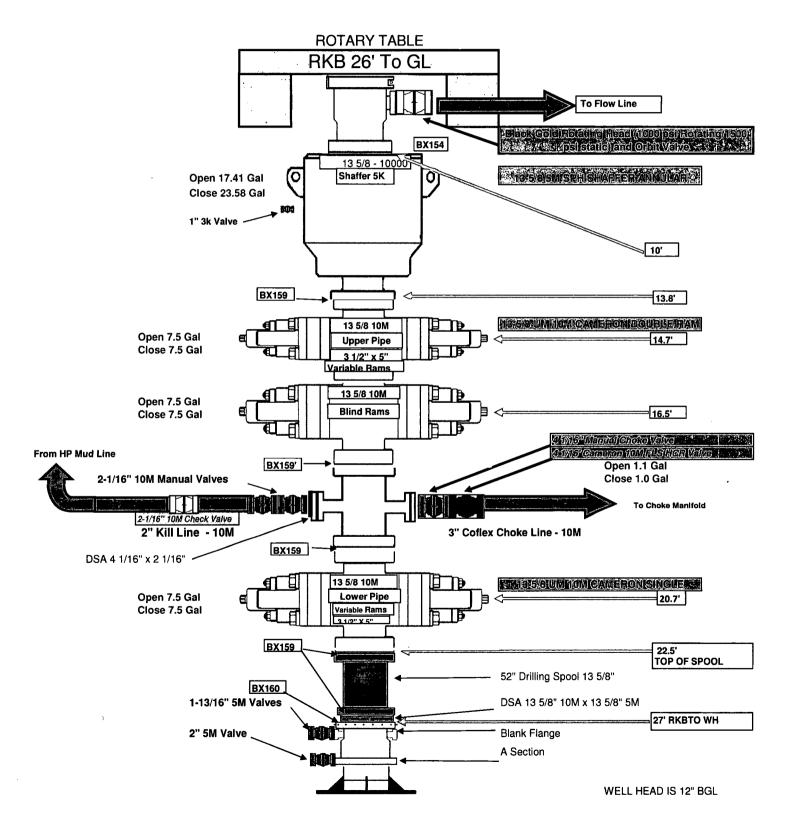
Other Variance attachment:

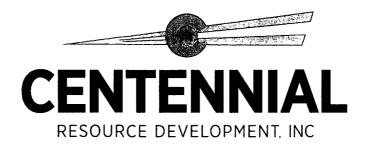
Flex_Hose_Specs_20181024104042.pdf



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H&P 650





HYDROGEN SULFIDE CONTINGENCY PLAN

Dankey Kong 1 Fed Com 503 F

Section 23

T 255 R 34R 2020° ISIL & 1416° MEL

Lea County, NM

Initial Date: 10/9/18

Revision Date:

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Table of Contents

Page 3: Introduction

Page 4: Directions to Location

Page 5: Safe Briefing Areas

Page 6: Drill Site Location Setup

Page 7: Toxicity of Various Gases

Page 10: H2S Required Equipment

Page 11: Determination of Radius of Exposure

Page 12: Emergency Contact List

INTRODUCTION

This plan specifies precautionary measures, safety equipment, emergency procedures, responsibilities, duties, and the compliance status pertaining to the production operations of Hydrogen Sulfide producing wells on:

Centennial Resource Development, Inc.

This plan will be in full effect prior to and continuing with all drilling operations for all wells producing potential Hydrogen Sulfide on the

Donkey Kong IkEed Com 503H

This plan was developed in response to the potential hazards involved when producing formations that may contain Hydrogen Sulfide (H₂S) It has been written in compliance with current New Mexico Oil Conservation Division Rule 118 and Bureau of Land Management 43 CFR 3160 Onshore Order No. 6.

All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a

This plan shall require the full cooperation and efforts of all individuals participating in the production of potential H₂S wells.

Each individual is required to know their assigned responsibilities and duties in regard to normal production operations and emergency procedures.

Each person should thoroughly understand and be able to use all safety related equipment on the production facility.

Each person should become familiar with the location of all safety equipment and become involved in ensuring that all equipment is properly stored, easily accessible, and routinely maintained.

An ongoing training program will remain in effect with regular training, equipment inspections, and annual certifications for all personnel.

Centennial Resource Development, Inc. shall make every reasonable effort to provide all possible safeguards to protect all personnel, both on this location and in the immediate vicinity, from the harmful effects of H₂S exposure, if a release to the atmosphere should occur.

DIRECTIONS TO LOCATION

Donkey Kong 1 Fed Com 503H

Section 23

T-235-R-34E-20902ESIE-82-141/62 FEL

LéarGounty&NM

COMMENCING AT THE INTERSECTION OF N.M. 207 AND N.M. 176 IN EUNICE, NEW MEXICO, PROCEED IN A SOUTHERLY DIRECTION ALONG NM-207 APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND DELAWARE BASIN ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 20.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE DUCK HUNT 1 STATE COM #601 & #602 TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY, THEN NORTHERLY, DIRECTION APPROXIMATELY 6,204' TO THE BEGINNING OF THE ROAD FLAGS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 29' TO THE PROPOSED LOCATION. TOTAL DISTANCE FROM EUNICE, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 24.3 MILES.

SAFE BRIEFING AREAS

Two areas will be designated as "SAFE BRIEFING AREAS".

The Primary Safe Briefing Area

If the Primary Safe Briefing Area cannot be used due to wind conditions; the designated secondary safe briefing area will be used.

These two areas are so designated for accessibility reasons related to self-contained safe breathing air device locations, evacuation muster point utility, and for ease of overall communication, organizational support, as well as the all-important prevailing wind directions. Drawings of the facility denoting these locations are included on Page 15.

If H₂S is detected in concentrations equal to or in excess of 15 PPM, all personnel not assigned emergency duties are to assemble in the appropriate "SAFE BRIEFING AREA" for instructions.

Wind Direction Indicators: A windsock, shall be positioned, allowing the wind direction to be observed from anywhere on the charted facility location.

Warning-DANGER SIGNS for Approaching Traffic: All signs shall also be illuminated under conditions of poor visibility.

DANGER POISONOUS GAS HYDROGEN SULFIDE DO NOT APPROACH IF AMBER LIGHTS ARE FLASHING

An amber strobe light system will be activated for H₂S concentrations of 10 PPM or greater and an audible alarm will sound when H₂S exceeds 15 ppm, and. This condition will exist until the all clear is given.

DRILL SITE LOCATION:

- 1. The drilling rig should be situated on location such that the prevailing winds blow across the rig toward the reserve pit or at right angles to a line from the rig to the reserve pit.
- 2. The entrance to the location should be designated so that it can be barricaded if Hydrogen Sulfide emergency conditions arise. An auxiliary exit (or entrance) should be available in case of a catastrophe; a shift in wind direction would not preclude escape from the location. Appropriate warning signs and flags should be placed at all location entrances.
- 3. Once H2S safety procedures are established on location, no beards or facial hair, which will interfere with face seal or mask, will be allowed on location.
- 4. A minimum of two BRIEFING AREAS will be established, no less than 250 feet from the wellhead and in such location that at least one area will be up-wind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated briefing areas for instructions.
- 5. A safety equipment trailer will be station at one of the briefing areas.
- 6. Windsocks will be installed and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windsocks shall be illuminated for nighttime operations. Personnel should develop wind direction consciousness.
- 7. The mud-logging trailer will be located so as to minimize the danger from the gas that breaks out of the drilling fluid.
- 8. Shale shaker mud tanks will be located so as to minimize the danger from gas that breaks out of the drilling fluid.
- 9. Electric power plant(s) will be located as far from the well bore as practical so that it may be used under conditions where it otherwise would have to be shut down.
- 10. When approaching depth where Hydrogen Sulfide may be encountered, appropriate warning signs will be posted on all access roads to the location and at the foot of all stairways to the derrick floor.
- 11. Appropriate smoking areas will be designated, and smoking will be prohibited elsewhere.

The table below lists various poisonous gases and the concentrations at which they become dangerous.

(TOXICITY OF GASES (Taken from API RP-49 September 1974 – Re-issued August 1978)									
Common Name	Chemical Formula	Gravity (Air = 1)	Threshold 1 Limit	Hazardous 2 Limit	Lethal 3 Limit					
Hydrogen Sulfide	H ₂ S	1.18	10 ppm	250 ppm/1hr	600 ppm					
Sulfur Dioxide	SO ₂	2.21	20 ppm		1000 ppm					
Carbon Monoxide	СО	0.97	50 ppm	400 ppm/1hr	1000 ppm					
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%					
Methane	CH₄	0.55	90000 ppm	Combustible A						

TOXICITY OF VARIOUS GASES

1. Threshold	2. Hazardous	3. Lethal concentration
concentration at	concentration that	that will cause death
which it is believed	may cause death	with short-term
that all workers may		exposure
repeatedly be expose	d	-
day after day, withou	ut 🛛	
adverse effect		

Properties of Gases

The produced gas will probably be a mixture of Carbon Dioxide, Hydrogen Sulfide, and Methane.

Carbon Dioxide

Carbon Dioxide (CO₂) is usually considered inert and is commonly used to extinguish fires.

It is heavier than air (1.52 times) and it will concentrate in low areas of still air.

Humans cannot breathe air containing more than 10% CO₂ without losing consciousness. Air containing 5% CO₂ will cause disorientation in a few minutes.

Continued exposures to CO₂ after being affected will cause convulsions, coma, and respiratory failure.

The threshold limit of CO₂ is 5000 ppm.

Short-term exposure to 50,000 PPM (5%) is reasonable. This gas is colorless and odorless and can be tolerated in relatively high concentrations.

Hydrogen Sulfide

Hydrogen Sulfide (H₂S) itself is a colorless, transparent gas and is flammable. It is heavier than air and, hence, may accumulate in low places.

Although the slightest presence of H₂S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of Hydrogen Sulfide.

	HYDROGEN SULFIDE TOXICITY								
	Concent	ration	Effects						
%H ₂ S	PPM	GR/100 SCF 1							
0.001	10	0.65	Safe for 8 hours without respirator. Obvious and unpleasant odor.						
0.002	20	1.30	Burning in eyes and irritation of respiratory tract after on hour.						
0.01	100	6.48	Kills smell in 3 to 15 minutes; may sting eyes and throat.						
0.02	200	12.96	Kills smell shortly; stings eyes and throat.						
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.						
0.07	700	45.92	Unconscious quickly; death will result if not rescued promptly						
0.10	1000	64.80	DEATH!						
Note: 1	grain per 10	00 cubic feet	· · · ·						

Sulfur Dioxide

Sulfur Dioxide is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide (SO₂) is produced during the burning of H₂S. Although SO₂ is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas.

	SULFUR DIOXIDE TOXICITY							
Conce	ntration	Effects						
%SO ₂	PPM							
0.0005	3 to 5	Pungent odor-normally a person can detect SO ₂ in this						
		range.						
0.0012	12	Throat irritation, coughing, and constriction of the chest						
		tearing and smarting of eyes.						
0.15	150	So irritating that it can only be endured for a few						
		minutes.						
0.05	500	Causes a sense of suffocation, even with first breath.						

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H₂S REQUIRED EQUIPMENT LIST

RESPIRATORY SAFETY SYSTEMS

- Working cascade system available on rig floor and pit system & 750' of air line hose
- Four (4) breathing air manifolds
- Four (4) 30-minute rescue packs
- Five (5) work/Escape units
- Five (5) escape units
- One (1) filler hose for the work/escape/resuce units

DETECTION AND ALARM SYSTEM

- 4 channel H2S monitor
- 4 wireless H2S monitors
- H2S alarm system (Audible/Red strobe)
- Personal gas monitor for each person on location
- Gas sample tubes

WELL CONTROL EQUIPMENT

- Flare line with remote ignitor and backup flare gun, placed 150' from wellhead
- Choke manifold with remotely operated choke
- Mud gas separator

VISUAL WARNING SYSTEMS

- One color code condition sign will be placed at each entrance reflecting possible conditions at the site
- A colored condition flag will be on display, reflecting current condition at the site at the time
- At least 4 wind socks placed on location, visible at all angles and locations

MUD PROGRAM

- Mud will contain sufficient weight and additives to control and minimize H2S

METALLURGY

- All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H2S volume and pressure

COMMUNICATION

- Cell phones, intercoms, and satellite phones will be available on location

ADDITIONAL SAFETY RELATED ITEMS

- Stretcher
- 2 OSHA full body harness

- 20# class ABC fire extinguisher

DETERMINATION OF RADIUS OF EXPOSURE

Potentially hazardous volume means a volume of gas of such H2S concentration and flow rate that it may result in radius of exposure-calculated ambient concentrations of 100 ppm H2S at any occupied residence, school, church, park, school bus stop, place of business or other area where the public could reasonably be expected to frequent, or 500 ppm H2S at any Federal, State, County or municipal road or highway.

Currently there are no residence located within the ROE

Radius of exposure means the calculation resulting from using the Pasquill -Gifford derived equation, or by such other method(s) that may be approved by the authorized officer. Advanced Fire and Safety has provided the Pasquill-Gifford formula in excel format for simple calculations.

NEW MEXICO OIL & GAS CONSERVATION DIVISION 118

Donkey-Kong-ll-Ledeom:508H

H2S Concentration- PPM (Block 13)

Maximum Escape Volume- 2400 MCF/Day (Block 13)

100 PPM Radius of Exposure (Block 15)- (Formula= 1.589 x (B5/1000000) x (B6 x 1000) x .6258

500 PPM Radius of Exposure (Block 16)-

EMERGENCY CONTACT LIST

911 is available in the area	·						
NAME	POSITION	COMPANY	NUMBER				
Centennial Contacts							
Jeremy Ray	Drilling Engineer	CDEV	303-263-7872				
Ricky Mills/John Helm	Superintendent	CDEV	432-305-1068				
Mike Ponder/Wayne Miller	Field Superintendent	CDEV	432-287-3003				
Brett Thompson	Drilling Manager	CDEV	720-656-7027				
Reggie Phillips	HSE Manager	CDEV	432-638-3380				
H&P 650 Drilling Office	Drilling Supervisor	CDEV	432-538-3343				
	Local Emergency Resp	onse					
Fire Department			575-395-2511				
Jal Community Hospital			505-395-2511				
State Police			505-827-9000				
Lea County Sheriff			575-396-3611				
	Safety Contractor						
Advanced Safety	Office	Advanced Safety	833-296-3913				
Joe Gadway	Permian Supervisor	Advanced Safety	318-446-3716				
Clint Hudson	Operations Manager	Advanced Safety	337-552-8330				
	Well Control Compa	ny					
Wild Well Control			866-404-9564				
	Contractors						
Tommy E Lee	Pump Trucks		432-813-7140				
Paul Smith	Drilling Fluids	Momentum	307-258-6254				
Compass Coordinators	Cement	Compass	432-561-5970				

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Centennial Resource Development,

Inc.

Lea Co., NM (NAD83) Donkey Kong 1 Fed Com 503H

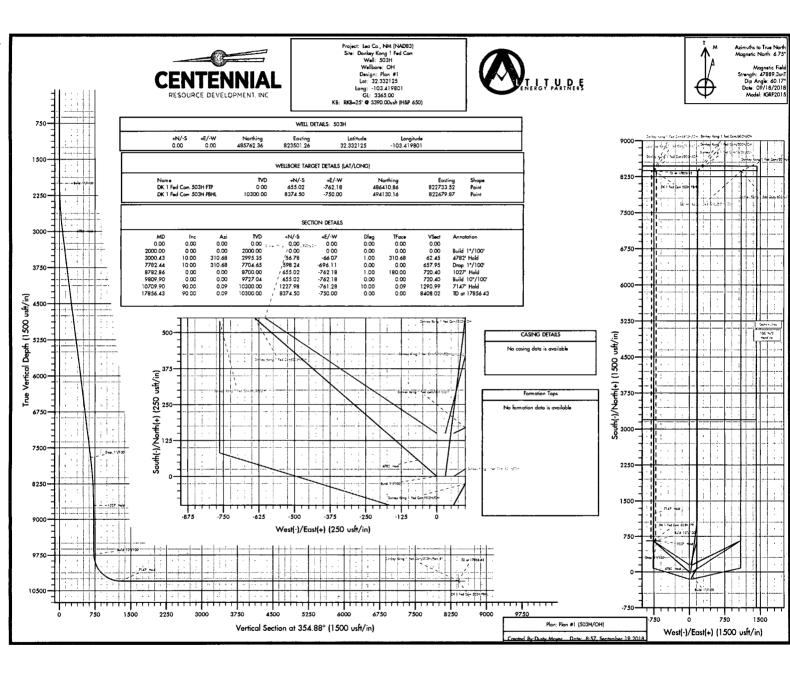
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Plan: Plan #1

Standard Planning Report

19 September, 2018





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Planning Report



Database:	FDM	5000 1 Single I	Iser Db		Local Co-	ordinate Refere	ence:	Vell 503H			
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Project:	Lea Co., NM (NAD83)				1			-	3=25' @ 3390.00usft (H&P 650) 3=25' @ 3390.00usft (H&P 650)		
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Nellbore:	OH	14									
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Geo Datum:	North An	nerican Datum	1983								
Map Zone:	New Me:	xico Eastern Zo	one								
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From:	Map			sting:	823		Longitude:			-103.41960	
Position Uncertaint	y:	0.00	0 usft Slo	t Radius:		13-3/16 "	Grid Converg	ence:		0.49	
Well	503H										
Well Position	+N/-S	149.9	91 usft	Northing:		485,762.36	usft Lati	tude:		32.33212	
	+E/-W	-60.1	18 usft	Easting:		823,501.26		gitude:		-103.41980	
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Audit Notes: Version: Vertical Section: Plan Survey Tool P	rogram	Date h To	Depth From (usft) 0.00	ase: F	PLAN +N/¦S (usft)	6.75 Tie +E/ (us	On Depth: -W ift)	60.17 Dire	47,81 0.00 ection		
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft)	rogram Depti (us	Date h To ft) Survey	Depth From (usft) 0.00 09/19/18 (Wellbore)	ase: F	PLAN +N/ [‡] S (usft) 0.00 Tool Name	6.75 Tie +E/ (us 0.0	On Depth: -W :ft) D0	60.17 Dire	47,81 0.00 ection		
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From	rogram Depti (us	Date h To	Depth From (usft) 0.00 09/19/18 (Wellbore)	ase: F	² LAN +N/[‡]S (usft) 0.00 Tool Name MWD+IFR1+M	6.75 Tie +E/ (us 0.0	On Depth: W -ft) D0 Remarks	60.17 Dire	47,81 0.00 ection		
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft)	rogram Depti (us	Date h To ft) Survey	Depth From (usft) 0.00 09/19/18 (Wellbore)	ase: F	² LAN +N/[‡]S (usft) 0.00 Tool Name MWD+IFR1+M	6.75 Tie +E/ (us 0.0	On Depth: W -ft) D0 Remarks	60.17 Dire	47,81 0.00 ection		
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft)	rogram Depti (us	Date h To ft) Survey	Depth From (usft) 0.00 09/19/18 (Wellbore)	ase: F	² LAN +N/[‡]S (usft) 0.00 Tool Name MWD+IFR1+M	6.75 Tie +E/ (us 0.0	On Depth: W -ft) D0 Remarks	60.17 Dire	47,81 0.00 ection		
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections	rogram Depti (us	Date h To ft) Survey	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH)	ase: F	² LAN +N/[‡]S (usft) 0.00 Tool Name MWD+IFR1+M	6.75 Tie +E/ (us 0.0	On Depth: -W :ft) D0 Remarks	60.17 Dire	47,81 0.00 ection		
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured	rogram Depti (us	Date h To ft) Survey	Depth From (usft) 0.00 09/19/18 (Wellbore)	ase: F	² LAN +N/[‡]S (usft) 0.00 Tool Name MWD+IFR1+M	6.75 Tie +E/ (us 0.0	On Depth: W -ft) D0 Remarks	60.17 Dire	47,81 0.00 ection		
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft)	rogram Depti (us 17,8? (Date h To ft) Survey 56.43 Plan #1 Azimuth (°)	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) Vertical Depth (usft)	hase: F (TVD) +N/-S (usft)	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+M OWSG MWD +E/-W (usft)	6.75 Tie / +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (°/100usft)	On Depth: W -ft) D0 Remarks S1 S1 Build Rate (*/100usft)	60.17 Dire 35 Turn Rate (°/100usft)	47,81 0.00 section (°) 4.88 TFO (°)	39.33086723	
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft) 0.00	rogram Depti (us 17,8*	Date h To ft) Survey 56.43 Plan #1 Azimuth (°) 0.00	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) Vertical Depth (usft) 0.0	hase: F (TVD) +N/-S (usft) 0 0.00	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+M OWSG MWD +E/-W (usft) 0.00	6.75 Tie / +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (°/100usft) 0.00	On Depth: W sft) D0 Remarks S1 S1 Build Rate (*/100usft) 0.00	60.17 Dire 35 Turn Rate (°/100usft) 0.00	47,81 0.00 section (°) 4.88 TFO (°) 0.00	B9.33086723	
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft) 0.00 2,000.00	rogram Depti (us 17,8: (Date h To ft) Survey 56.43 Plan #1 Azimuth (°) 0.00 0.00	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) (OH) Vertical Depth (usft) 0.0 2,000.0	hase: F (TVD) +N/-S (usft) 0 0.00 0 0.00	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+M OWSG MWD +E/-W (usft) 0.00 0.00	6.75 Tie / +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (°/100usft) 0.00 0.00	On Depth: W sft) D0 Remarks St Build Rate (*/100usft) 0.00 0.00	60.17 Dire 35 Turn Rate (°/100usft) 0.00 0.00	47,81 0.00 section (°) 4.88 TFO (°) 0.00 0.00	B9.33086723	
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft) 0.00 2,000.00 3,000.43	rogram Depti (us 17,8: (Date h To ft) Survey 56.43 Plan #1 Azimuth (°) 0.00 0.00 310.68	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) (OH) Vertical Depth (usft) 0.0 2,000.0 2,995.3	hase: F (TVD) +N/-S (usft) 0 0.00 0 0.00 5 56.78	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+N OWSG MWD +E/-W (usft) 0.00 0.00 0.00 0.00 0.00	6.75 Tie 4 +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (*/100usft) 0.00 0.00 1.00	On Depth: 	60.17 Dire 35 Turn Rate (°/100usft) 0.00 0.00 0.00	47,81 0.00 sction (°) 4.88 TFO (°) 0.00 0.00 310.68	B9.33086723	
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft) 0.00 2,000.00 3,000.43 7,782.44	rogram Depti (us 17,85 () () () () () () () () () () () () ()	Date h To ft) Survey 56.43 Plan #1 Azimuth (*) 0.00 0.00 310.68 310.68	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) (OH) Vertical Depth (usft) 0.0 2,000.0 2,995.3 7,704.6	hase: F (TVD) +N/-S (usft) 0 0.00 0 0.00 5 56.78 5 598.24	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+N OWSG MWD +E/-W (usft) 0.00 0.00 0.00 -66.07 -696.11	6.75 Tie 4 +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (*/100usft) 0.00 0.00 1.00 0.00	On Depth: W fit) 	60.17 Dire 35 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00	47,84 0.00 action (°) 4.88 TFO (°) 0.00 0.00 310.68 0.00	B9.33086723	
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft) 0.00 2,000.00 3,000.43	rogram Depti (us 17,8: (Date h To ft) Survey 56.43 Plan #1 Azimuth (°) 0.00 0.00 310.68	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) (OH) Vertical Depth (usft) 0.0 2,000.0 2,995.3	hase: F (TVD) +N/-S (usft) 0 0.00 0 0.00 5 56.78 5 598.24	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+N OWSG MWD +E/-W (usft) 0.00 0.00 0.00 0.00 0.00	6.75 Tie 4 +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (*/100usft) 0.00 0.00 1.00	On Depth: 	60.17 Dire 35 Turn Rate (°/100usft) 0.00 0.00 0.00	47,81 0.00 sction (°) 4.88 TFO (°) 0.00 0.00 310.68	39.33086723	
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft) 0.00 2,000.00 3,000.43 7,782.44	rogram Depti (us 17,85 () () () () () () () () () () () () ()	Date h To ft) Survey 56.43 Plan #1 Azimuth (*) 0.00 0.00 310.68 310.68	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) (OH) Vertical Depth (usft) 0.0 2,000.0 2,995.3 7,704.6	hase: F (TVD) +N/-S (usft) 0 0.00 0 0.00 5 56.78 5 598.24 0 655.02	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+N OWSG MWD +E/-W (usft) 0.00 0.00 0.00 -66.07 -696.11	6.75 Tie 4 +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (*/100usft) 0.00 0.00 1.00 0.00	On Depth: W fit) 	60.17 Dire 35 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00	47,84 0.00 action (°) 4.88 TFO (°) 0.00 0.00 310.68 0.00	39.33086723	
Audit Notes: Version: Vertical Section: Plan Survey Tool P Depth From (usft) 1 0.00 Plan Sections Measured Depth Inc (usft) 0.00 2,000.00 3,000.43 7,782.44 8,782.86	rogram Depti (us 17,85 () () () () () () () () () () () () ()	Date h To ft) Survey 56.43 Plan #1 Azimuth (*) 0.00 0.00 310.68 310.68 310.68 0.00	Depth From (usft) 0.00 09/19/18 (Wellbore) (OH) (OH) Vertical Depth (usft) 0.0 2,000.0 2,995.3 7,704.6 8,700.0	ase: F (TVD) +N/-S (usft) 0 0.00 0 0.00 5 56.78 5 598.24 0 655.02 4 655.02	PLAN +N/ ⁺ S (usft) 0.00 Tool Name MWD+IFR1+N OWSG MWD +E/-W (usft) 0.00 0.00 0.00 -66.07 -696.11 -762.18	6.75 Tie 4 +E/ (us 0.0 MS + IFR1 + Multi-S Dogleg Rate (*/100usft) 0.00 0.00 1.00 0.00 1.00	On Depth: W fit) 	60.17 Dire (*) 35 Turn Rate (*)100usft) 0.00 0.00 0.00 0.00 0.00 0.00	47,84 0.00 section (°) 4.88 TFO (°) 0.00 0.00 310.68 0.00 180.00	39.33086723	

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Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 503H
Company:	Centennial Resource Development, Inc.	TVD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Pian #1		

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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	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	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100'									
2,100.00	1.00	310.68	2,099.99	0.57	-0.66	0.63	1.00	1.00	0.00
2,200.00	2.00	310.68	2,199.96	2.27	-2.65	2.50	1.00	1.00	0.00
2,300.00	3.00	310.68	2,299.86	5.12	-5.96	5.63	1.00	1.00	0.00
2,400.00	4.00	310.68	2,399.68	9.10	-10.59	10.00	1.00	1.00	0.00
2,500.00	5.00	310.68	2,499.37	14.21	-16.54	15.63	1.00	1.00	0.00
2,600.00	6.00	310.68	2,598.90	20.46	-23.80	22.50	1.00	1.00	0.00
2,700.00	7.00	310.68	2,698.26	27.84	-32.39	30.61	1.00	1.00	0.00
2,800.00	8.00	310.68	2,797.40	36.34	-42.29	39.97	1.00	1.00	0.00
2,900.00	9.00	310.68	2,896.30	45.98	-53.50	50.57	1.00	1.00	0.00
3,000.43	10.00	310.68	2,995.35	56.78	-66.07	62.45	1.00	1.00	0.00
4782' Hold					_				
3,100.00	10.00	310.68	3,093.41	68.06	-79.19	74.85	0.00	0.00	0.00
3,200.00	10.00	310.68	3,191.89	79.38	-92.37	87.30	0.00	0.00	0.00
3,300.00	10.00	310.68	3,290.37	90.70	-105.54	99.76	0.00	0.00	0.00
3,400.00	10.00	310.68	3,388.85	102.03	-118.72	112.21	0.00	0.00	0.00
3,500.00	10.00	310.68	3,487.33	113.35	-131.89	124.66	0.00	0.00	0.00
3,600.00	10.00	310.68	3,585.81	124.67	-145.07	137.11	0.00	0.00	0.00
3,700.00	10.00	310.68	3,684.29	135.99	-158.24	149.57	0.00	0.00	0.00
3,800.00	10.00	310.68	3,782.77	147.32	-171.42	162.02	0.00	0.00	0.00
3,900.00	10.00	310.68	3,881.25	158.64	-184.59	174.47	0.00	0.00	0.00
4,000.00	10.00	310.68	3,979.73	169.96	-197.77	186.93	0.00	0.00	0.00
4,100.00	10.00	310.68	4,078.21	181.29	-210.94	199.38	0.00	0.00	0.00
4,200.00	10.00	310.68	4,176.68	192.61	-224.12	211.83	0.00	0.00	0.00
4,300.00	10.00	310.68	4,275.16	203.93	-237.29	224.28	0.00	0.00	0.00
4,400.00	10.00	310.68	4,373.64	215.25	-250.47	236.74	0.00	0.00	0.00
4,500.00	10.00	310.68	4,472.12	226.58	-263.64	249.19	0.00	0.00	0.00
4,600.00	10.00	310.68	4,570.60	237.90	-276.82	261.64	0.00	0.00	0.00
4,700.00	10.00	310.68	4,669.08	249.22	-289.99	274.10	0.00	0.00	0.00
4,700.00	10.00	310.68	4,009.00	249.22	-209.99				0.00
4,900.00	10.00	310.68	4,767.56	260.55 271.87	-303.17 -316.34	286.55 299.00	0.00 0.00	0.00 0.00	0.00
5,000.00	10.00	310.68	4,964.52	283.19	-329.52	311.46	0.00	0.00	0.00





Database: Company: Project: Site:	EDM 5000.1 Single User Db Centennial Resource Development, Inc. Lea Co., NM (NAD83) Donkey Kong 1 Fed Com	Local Co-ordinate Reference: TVD Reference: MD Reference:	Well 503H RKB=25' @ 3390.00usft (H&P 650) RKB=25' @ 3390.00usft (H&P 650)
Site: Well: Wellbore:	503H OH	North Reference: Survey Calculation Method:	True Minimum Curvature
Design:			

Planned Survey

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Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
5,100.00	10.00	310.68	5,063.00	294.51	-342.69	323.91	0.00	0.00	0.00
5,200.00	10.00	310.68	5,161.48	305.84	-355.87	336.36	0.00	0.00	0.00
5,300.00	10.00	310.68	5,259.96	317.16	-369.04	348.81	0.00	0.00	0.00
5,400.00	10.00	310.68	5,358.44	328.48	-382.22	361.27	0.00	0.00	0.0
5,500.00	10.00	310.68	5,456.92	339.81	-395.39	373.72	0.00	0.00	0.00
5,600.00	10.00	310.68	5,555.40	351.13	-408.57	386.17	0.00	0.00	0.00
5,700.00	10.00	310.68	5,653.88	362.45	-421.75	398.63	0.00	0.00	0.00
5,800.00	10.00	310.68	5,752.36	373.77	-434.92	411.08	0.00	0.00	0.00
5,900.00	10.00	310.68	5,850.84	385.10	-448.10	423.53	0.00	0.00	0.00
6,000.00	10.00	310.68	5,949.32	396.42	-461.27	435.98	0.00	0.00	0.00
6,100.00	10.00	310.68	6,047.79	407.74	-474.45	448.44	0.00	0.00	0.00
6,200.00	10.00	310.68	6,146.27	419.06	-487.62	460.89	0.00	0.00	0.00
6,300.00	10.00	310.68	6,244.75	430.39	-500.80	473.34	0.00	0.00	0.00
6,400.00	10.00	310.68	6,343.23	441.71	-513.97	485.80	0.00	0.00	0.00
6,500.00	10.00	310.68	6,441.71	453.03	-527.15	498.25	0.00	0.00	0.00
6,600.00	10.00	310.68	6,540.19	464.36	-540.32	510.70	0.00	0.00	0.00
6,700.00	10.00	310.68	6,638.67	475.68	-553.50	523.15	0.00	0.00	0.00
6,800.00	10.00	310.68	6,737.15	487.00	-566.67	535.61	0.00	0.00	0.00
6,900.00	10.00	310.68	6,835.63	498.32	-579.85	548.06	0.00	0.00	0.00
7,000.00	10.00	310.68	6,934.11	509.65	-593.02	560.51	0.00	0.00	0.00
7,100.00	10.00	310.68	7,032.59	520.97	-606.20	572.97	0.00	0.00	0.00
7,200.00	10.00	310.68	7,131.07	532.29	-619.37	585.42	0.00	0.00	0.00
7,300.00	10.00	310.68	7,229.55	543.62	-632.55	597.87	0.00	0.00	0.00
7,400.00	10.00	310.68	7,328.03	554.94	-645.72	610.33	0.00	0.00	0.00
7,500.00	10.00	310.68	7,426.51	566.26	-658.90	622.78	0.00	0.00	0.00
7,600.00	10.00	310.68	7,524.99	577.58	-672.07	635.23	0.00	0.00	0.00
7,700.00	10.00	310.68	7,623.47	588.91	-685.25	647.68	0.00	0.00	0.00
7,782.44	10.00	310.68	7,704.65	598.24	-696.11	657.95	0.00	0.00	0.00
Drop 1°/100'									
7,800.00	9.83	310.68	7,721.95	600.21	-698.40	660.12	1.00	-1.00	0.00
7,900.00	8.83	310.68	7,820.63	610.78	-710.70	671.74	1.00	-1.00	0.00
8,000.00	7.83	310.68	7,919.57	620.22	-721.68	682.12	1.00	-1.00	0.00
8,100.00	6.83	310.68	8,018.75	628.53	-731.36	691.26	1.00	-1.00	0.00
8,200.00	5.83	310.68	8,118.14	635.72	-739.72	699.17	1.00	-1.00	0.00
8,300.00	4.83	310.68	8,217.71	641.77	-746.76	705.82	1.00	-1.00	0.00
8,400.00	3.83	310.68	8,317.42	646.69	-752.48	711.23	1.00	-1.00	0.00
8,500.00	2.83	310.68	8,417.25	650.47	-756.89	715.40	1.00	-1.00	0.00
8,600.00	1.83	310.68	8,517.17	653.12	-759.97	718.31	1.00	-1.00	0.00
8,700.00	0.83	310.68	8,617.14	654.63	-761.73	719.97	1.00	-1.00	0.00
8,782.86	0.00	0.00	8,700.00	655.02	-762.18	720.40	1.00	-1.00	0.00
1027' Hold									
8,800.00	0.00	0.00	8,717.14	655.02	-762.18	720.40	0.00	0.00	0.00
8,900.00	0.00	0.00	8,817.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,000.00	0.00	0.00	8,917.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,100.00	0.00	0.00	9,017.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,200.00	0.00	0.00	9,117.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,300.00	0.00	0.00	9,217.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,400.00	0.00	0.00	9,317.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,500.00	0.00	0.00	9,417.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,600.00	0.00	0.00	9,517.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,700.00	0.00	0.00	9,617.14	655.02	-762.18	720.40	0.00	0.00	0.00
9,809.91	0.00	0.00	9,727.04	655.02	-762.18	720.40	0.00	0.00	0.00
Build 10°/100									





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 503H
Company:	Centennial Resource Development, Inc.	TVD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Welt:	503H	Survey Calculation Method:	Minimum Curvature
Nellbore:	ОН		
Design:	Plan #1	1	
Planned Survey			

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
9,850.00	4.01	0.09	9,767.10	656.43	-762.18	721.80	10.00	10.00	0.00
9,900.00	9.01	0.09	9,816.77	662.09	-762.17	727.44	10.00	10.00	0.00
9,950.00	14.01	0.09	9,865.75	672.07	-762.15	737.37	10.00	10.00	0.00
10,000.00	19.01	0.09	9,913.67	686.27	-762.13	751.52	10.00	10.00	0.00
10,050.00	24.01	0.09	9,960.17	704.60	-762.10	769.77	10.00	10.00	0.00
10,100.00	29.01	0.09	10,004.90	726.91	-762.07	791.99	10.00	10.00	0.00
10,150.00	34.01	0.09	10,047.52	753.03	-762.03	818.00	10.00	10.00	0.00
10,200.00	39.01	0.09	10,087.69	782.77	-761.98	847.62	10.00	10.00	0.00
10,250.00	44.01	0.09	10,125.12	815.90	-761.93	880.61	10.00	10.00	0.00
10,300.00	49.01	0.09	10,159.52	852.16	-761.87	916.72	10.00	10.00	0.00
10,350.00	54.01	0.09	10,190.63	891.28	-761.81	955.68	10.00	10.00	0.00
10,400.00	59.01	0.09	10,218.21	932.97	-761.74	997.20	10.00	10.00	0.00
10,450.00	64.01	0.09	10,242.06	976.90	-761.67	1,040.95	10.00	10.00	0.00
10,500.00	69.01	0.09	10,261.98	1,022.74	-761.60	1,086.60	10.00	10.00	0.00
10,550.00	74.01	0.09	10,277.83	1,070.14	-761.53	1,133.81	10.00	10.00	0.00
10,600.00	79.01	0.09	10,289.49	1,118.75	-761.45	1,182.21	10.00	10.00	0.00
10,650.00	84.01	0.09	10,296.87	1,168.19	-761.37	1,231.44	10.00	10.00	0.00
10,700.00	89.01	0.09	10,299.91	1,218.08	-761.29	1,281.13	10.00	10.00	0.00
10,709.91	90.00	0.09	10,300.00	1,227.98	-761.28	1,290.99	10.00	10.00	0.00
7147' Hold									
10,800.00	90.00	0.09	10,300.00	1,318.08	-761.13	1,380.72	0.00	0.00	0.00
10,900.00	90.00	0.09	10,300.00	1,418.08	-760.98	1,480.30	0.00	0.00	0.00
11,000.00	90.00	0.09	10,300.00	1,518.08	-760.82	1,579.89	0.00	0.00	0.00
11,100.00	90.00	0.09	10,300.00	1,618.08	-760.66	1,679.48	0.00	0.00	0.00
	90.00	0.09	10,300.00	1,718.08	-760.50	1,079.40	0.00	0.00	0.00
11,200.00	90.00	0.09	10,300.00	1,710.00	-700.50	1,778.00	0.00	0.00	
11,300.00	90.00	0.09	10,300.00	1,818.08	-760.35	1,878.65	0.00	0.00	0.00
11,400.00	90.00	0.09	10,300.00	1,918.08	-760.19	1,978.24	0.00	0.00	0.00
11,500.00	90.00	0.09	10,300.00	2,018.08	-760.03	2,077.83	0.00	0.00	0.00
11,600.00	90.00	0.09	10,300.00	2,118.08	-759.87	2,177.41	0.00	0.00	0.00
11,700.00	90.00	0.09	10,300.00	2,218.07	-759.71	2,277.00	0.00	0.00	0.00
11,800.00	90.00	0.09	10,300.00	2,318.07	-759.56	2,376.59	0.00	0.00	0.00
11,900.00	90.00	0.09	10,300.00	2,418.07	-759.40	2,476.17	0.00	0.00	0.00
12,000.00	90.00	0.09	10,300.00	2,518.07	-759.24	2,575.76	0.00	0.00	0.00
12,100.00	90.00	0.09	10,300.00	2,618.07	-759.08	2,675.35	0.00	0.00	0.00
12,200.00	90.00	0.09	10,300.00	2,718.07	-758.92	2,774.94	0.00	0.00	0.00
12,300.00	90.00	0.09	10,300.00	2,818.07	-758.77	2,874.52	0.00	0.00	0.00
12,400.00	90.00	0.09	10,300.00	2,918.07	-758.61	2,974.11	0.00	0.00	0.00
12,500.00	90.00	0.09	10,300.00	3,018.07	-758.45	3,073.70	0.00	0.00	0.00
12,600.00	90.00	0.09	10,300.00	3,118.07	-758.29	3,173.28	0.00	0.00	0.00
12,700.00	90.00	0.09	10,300.00	3,218.07	-758.14	3,272.87	0.00	0.00	0.00
12,800.00	90.00	0.09	10,300.00	3,318.07	-757.98	3,372.46	0.00	0.00	0.00
12,900.00	90.00	0.09	10,300.00	3,418.07	-757.82	3,472.05	0.00	0.00	0.00
13,000.00	90.00	0.09	10,300.00	3,518.07	-757.66	3,571.63	0.00	0.00	0.00
13,100.00	90.00	0.09	10,300.00	3,618.07	-757.50	3,671.22	0.00	0.00	0.00
13,200.00	90.00	0.09	10,300.00	3,718.07	-757.35	3,770.81	0.00	0.00	0.00
13,300.00	90.00	0.09	10,300.00	3,818.07	-757.19	3,870.39	0.00	0.00	0.00
13,400.00	90.00	0.09	10,300.00	3,918.07	-757.03	3,969.98	0.00	0.00	0.00
13,500.00	90.00	0.09	10,300.00	4,018.07	-756.87	4,069.57	0.00	0.00	0.00
13,600.00	90.00	0.09	10,300.00	4,118.07	-756.71	4,169.16	0.00	0.00	0.00
13,700.00	90.00	0.09	10,300.00	4,218.07	-756.56	4,268.74	0.00	0.00	0.00
13,800.00	90.00	0.09	10,300.00	4,318.07	-756.40	4,368.33	0.00	0.00	0.00
13,900.00	90.00	0.09	10,300.00	4,418.07	-756.24	4,300.33	0.00	0.00	0.00
14,000.00	90.00	0.09	10,300.00	4,518.07	-756.08	4,567.50	0.00	0.00	0.00
14,100.00	90.00	0.09	10,300.00	4,618.07	-755.93	4,667.09	0.00	0.00	0.00

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Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 503H
Company:	Centennial Resource Development, Inc.	TVD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		
Blanned Survey			

Planned Survey

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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)
14,200.00	90.00	0.09	10,300.00	4,718.07	-755.77	4,766.68	0.00	0.00	0.00
14,300.00	90.00	0.09	10,300.00	4,818.07	-755.61	4,866.27	0.00	0.00	0.00
14,400.00	90.00	0.09	10,300.00	4,918.07	-755.45	4,965.85	0.00	0.00	0.00
14,500.00	90.00	0.09	10,300.00	5,018.07	-755.29	5,065.44	0.00	0.00	0.00
14,600.00	90.00	0.09	10,300.00	5,118.07	-755.14	5,165.03	0.00	0.00	0.00
14,700.00	90.00	0.09	10,300.00	5,218.07	-754.98	5,264.61	0.00	0.00	0.00
14,800.00	90.00	0.09	10,300.00	5,318.07	-754.82	5,364.20	0.00	0.00	0.00
14,900.00	90.00	0.09	10,300.00	5,418.07	-754.66	5,463.79	0.00	0.00	0.00
15,000.00	90.00	0.09	10,300.00	5,518.07	-754.50	5,563.38	0.00	0.00	0.00
15,100.00	90.00	0.09	10,300.00	5,618.07	-754.35	5,662.96	0.00	0.00	0.00
15,200.00	90.00	0.09	10,300.00	5,718.07	-754.19	5,762.55	0.00	0.00	0.00
15,300.00	90.00	0.09	10,300.00	5,818.07	-754.03	5,862.14	0.00	0.00	0.00
15,400.00	90.00	0.09	10,300.00	5,918.07	-753.87	5,961.72	0.00	0.00	0.00
15,500.00	90.00	0.09	10,300.00	6,018.07	-753.72	6,061.31	0.00	0.00	0.00
15,600.00	90.00	0.09	10,300.00	6,118.07	-753.56	6,160.90	0.00	0.00	0.00
15,700.00	90.00	0.09	10,300.00	6,218.07	-753.40	6,260.49	0.00	0.00	0.00
15,800.00	90.00	0.09	10,300.00	6,318.07	-753.24	6,360.07	0.00	0.00	0.00
15,900.00	90.00	0.09	10,300.00	6,418.07	-753.08	6,459.66	0.00	0.00	0.00
16,000.00	90.00	0.09	10,300.00	6,518.07	-752.93	6,559.25	0.00	0.00	0.00
16,100.00	90.00	0.09	10,300.00	6,618.07	-752.77	6,658.84	0.00	0.00	0.00
16,200.00	90.00	0.09	10,300.00	6,718.07	-752.61	6,758.42	0.00	0.00	0.00
16,300.00	90.00	0.09	10,300.00	6,818.07	-752.45	6,858.01	0.00	0.00	0.00
16,400.00	90.00	0.09	10,300.00	6,918.07	-752.29	6,957.60	0.00	0.00	0.00
16,500.00	90.00	0.09	10,300.00	7,018.07	-752.14	7,057.18	0.00	0.00	0.00
16,600.00	90.00	0.09	10,300.00	7,118.07	-751.98	7,156.77	0.00	0.00	0.00
16,700.00	90.00	0.09	10,300.00	7,218.07	-751.82	7,256.36	0.00	0.00	0.00
16,800.00	90.00	0.09	10,300.00	7,318.07	-751.66	7,355.95	0.00	0.00	0.00
16,900.00	90.00	0.09	10,300.00	7,418.07	-751.51	7,455.53	0.00	0.00	0.00
17,000.00	90.00	0.09	10,300.00	7,518.07	-751.35	7,555.12	0.00	0.00	0.00
17,100.00	90.00	0.09	10,300.00	7,618.07	-751.19	7,654.71	0.00	0.00	0.00
17,200.00	90.00	0.09	10,300.00	7,718.07	-751.03	7,754.29	0.00	0.00	0.00
17,300.00	90.00	0.09	10,300.00	7,818.07	-750.87	7,853.88	0.00	0.00	0.00
17,400.00	90.00	0.09	10,300.00	7,918.07	-750.72	7,953.47	0.00	0.00	0.00
17,500.00	90.00	0.09	10,300.00	8,018.07	-750.56	8,053.06	0.00	0.00	0.00
17,600.00	90.00	0.09	10,300.00	8,118.07	-750.40	8,152.64	0.00	0.00	0.00
17,700.00	90.00	0.09	10,300.00	8,218.07	-750.24	8,252.23	0.00	0.00	0.00
17,800.00	90.00	0.09	10,300.00	8,318.07	-750.08	8,351.82	0.00	0.00	0.00
17,856.43	90.00	0.09	10,300.00	8,374.50	-750.00	8,408.02	0.00	0.00	0.00
TD at 17856.4	3								
Targets									
Name									

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
DK 1 Fed Com 503H FT - plan misses target o - Point	0.00 center by 100	0.00 4.98usft at (0.00).00usft MD (655.02 0.00 TVD, 0.0	-762.18 IO N, 0.00 E)	486,410.86	822,733.52	32.333926	-103.422269
DK 1 Fed Com 503H PB - plan hits target cent - Point	0.00 ter	0.00	10,300.00	8,374.50	-750.00	494,130.16	822,679.87	32.355143	-103.422230





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 503H
Company:	Centennial Resource Development, Inc.	TVD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	RKB=25' @ 3390.00usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ОН		
Design:	Plan #1		

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Plan Annotations

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Measured	Vertical	Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
 2,000.00	2,000.00	0.00	0.00	Build 1°/100'
3,000.43	2,995.35	56.78	-66.07	4782' Hold
7,782.44	7,704.65	598.24	-696.11	Drop 1°/100'
8,782.86	8,700.00	655.02	-762.18	1027' Hold
9,809.91	9,727.04	655.02	-762.18	Build 10°/100'
10,709.91	10,300.00	1,227,98	-761.28	7147' Hold
17,856,43	10,300.00	8.374.50	-750.00	TD at 17856.43

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