

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM127446
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☒ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator CENTENNIAL RESOURCE PRODUCTION LLC (372165)		8. Lease Name and Well No. DONKEY KONG 1 FED COM 601H (372165)
3a. Address 1001 17th Street, Suite 1800 Denver CO 80202	3b. Phone No. (include area code) (720)499-1400	9. API-Well No. 30-025-45681 (37293)
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT J / 1940 FSL / 1356 FEL / LAT 32.331713 / LONG -103.419606 At proposed prod. zone LOT A / 100 FNL / 330 FEL / LAT 32.355141 / LONG -103.416246		10. Field and Pool, or Exploratory OJO CHISO, BONE SPRING SOUTH
11. Sec., T, R, M, or Blk. and Survey or Area SEC 17 T23S / R34E / NMP		
14. Distance in miles and direction from nearest town or post office* 24.3 miles		12. County or Parish LEA
13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1356 feet	16. No of acres in lease 320.44	17. Spacing Unit dedicated to this well 240.03
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet	19. Proposed Depth 11350 feet / 19467 feet	20. BLM/BIA Bond No. in file FED: NMB001471
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3364 feet	22. Approximate date work will start* 08/01/2019	23. Estimated duration 25 days
24. Attachments		

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Katie Biersmith / Ph: (720)499-1522	Date 09/14/2018
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 02/28/2019
Title Assistant Field Manager Lands & Minerals Office CARLSBAD		

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
Approval Date: 02/28/2019

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03/06/19

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Centennial Resource Production, LLC
LEASE NO.:	NMNM-127446
WELL NAME & NO.:	Donkey Kong 1 Fed Com 601H
SURFACE HOLE FOOTAGE:	1940' FSL & 1356' FEL
BOTTOM HOLE FOOTAGE:	0100' FNL & 0330' FEL Sec. 36, T. 22 S., R 34 E.
LOCATION:	Section 01, T. 23 S., R 34 E., NMPM
COUNTY:	County, New Mexico

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 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. When the Communitization Agreement number is known, it shall also be on the sign.

A. DRILLING OPERATIONS REQUIREMENTS

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)

☐ **Lea County**

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 3933612

1. A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
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. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
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 is 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 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.**

B. CASING

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Water Basin:

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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

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.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Capitan Reef

Possible water flows in the Castile and Salado.

Possible lost circulation in the Red Beds, Rustler, Capitan Reef, and Delaware.

Abnormal pressures may be encountered within the 3rd Bone Spring Sandstone and all subsequent formations.

1. The 13-3/8 inch surface casing shall be set at approximately **1850** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - 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 is to include the lead cement slurry.**
 - 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.

Formation below the 13-3/8" shoe to be tested according to Onshore Order

2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight

required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

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.

Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

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- ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to Capitan Reef.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to

prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- ☐ Cement should tie-back at least **50 feet above the Capitan Reef** (Top of Capitan Reef estimated at 4590'). Operator shall provide method of verification

4. 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.

C. 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 53.
2. Variance approved to use flex line from BOP to choke manifold. 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.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.

5M 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. The appropriate BLM office shall be notified a minimum of 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).
 - a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
 - b. 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.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. 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.**
 - e. 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.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

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.

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

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

Operator Certification Data Report

03/05/2019

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: Katie Biersmith

Signed on: 06/01/2018

Title: Regulatory Analyst

Street Address: 1001 17th Street, Suite 1800

City: Denver

State: CO

Zip: 80202

Phone: (720)499-1522

Email address: Katie.Biersmith@cdevinc.com

Field Representative

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:



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

Application Data Report

03/05/2019

APD ID: 10400032699

Submission Date: 09/14/2018

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Highlighted data
reflects the most
recent changes.

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400032699

Tie to previous NOS?

Submission Date: 09/14/2018

BLM Office: CARLSBAD

User: Katie Biersmith

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production 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 agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: CENTENNIAL RESOURCE PRODUCTION LLC

Operator letter of designation:

Operator Info

Operator Organization Name: CENTENNIAL RESOURCE PRODUCTION LLC

Operator Address: 1001 17th Street, Suite 1800

Zip: 80202

Operator PO Box:

Operator City: Denver

State: CO

Operator Phone: (720)499-1400

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NEW

Master Development 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: 601H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: OJO CHISO, BONE Pool Name:
SPRING SOUTH

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

Describe other minerals:

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** NO **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 602

DONKEY KONG

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 24.3 Miles

Distance to nearest well: 30 FT

Distance to lease line: 1356 FT

Reservoir well spacing assigned acres Measurement: 240.03 Acres

Well plat: Donkey_Kong_1_Fed_Com_601H_Location_Plat_20180913170521.pdf

Well work start Date: 08/01/2019

Duration: 25 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 23782

	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 Leg #1	194 0	FSL	135 6	FEL	23S	34E	1	Lot J	32.33171 3	- 103.4196 06	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	336 4	0	0
KOP Leg #1	217 1	FSL	330	FEL	23S	34E	1	Lot I	32.33234 9	- 103.4162 9	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 741 5	108 48	107 79
PPP Leg #1	254 0	FNL	330	FEL	23S	34E	1	Lot H	32.33392 4	- 103.4162 87	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 127446	- 202 2	540 0	538 6

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

	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	FNL	330	FEL	22S	34E	36	Lot A	32.35514 1	- 103.4162 46	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 798 6	194 67	113 50
BHL Leg #1	100	FNL	330	FEL	22S	34E	36	Lot A	32.35514 1	- 103.4162 46	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	- 798 6	194 67	113 50



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

Drilling Plan Data Report

03/05/2019

APD ID: 10400032699

Submission Date: 09/14/2018

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Highlighted data
reflects the most
recent changes*

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER	-1989	1160	1160	SANDSTONE	NONE	No
2	CAPITAN REEF	-6579	4590	4600	OTHER : CARBONATE	USEABLE WATER	No
3	BELL CANYON	-7375	5386	5400	SANDSTONE	NATURAL GAS,OIL	No
4	CHERRY CANYON	-8105	6116	6200	SANDSTONE	NATURAL GAS,OIL	No
5	BRUSHY CANYON	-9383	7394	7400	SANDSTONE	NATURAL GAS,OIL	No
6	BONE SPRING LIME	-10767	8778	8800	OTHER : CARBONATE	NATURAL GAS,OIL	No
7	AVALON SAND	-11208	9219	9300	SHALE	NATURAL GAS,CO2,OIL	No
8	FIRST BONE SPRING SAND	-11783	9794	9800	SANDSTONE	NATURAL GAS,OIL	No
9	BONE SPRING 2ND	-11969	9980	10000	SHALE,OTHER : CARBONATE	NATURAL GAS,OIL	Yes
10	BONE SPRING 3RD	-13168	11179	11300	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11350

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

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.

Requesting Variance? YES

Variance request: Centennial is requesting to use a flex hose on the choke manifold for the Donkey Kong 1 Fed Com 601H well. Please see section 8 for hose specs attachment.

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_20180830131721.pdf

BOP Diagram Attachment:

BOP_Diagram_5M_20180830132106.pdf

Section 3 - Casing

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
1	CONDUCTOR	26	20.0	NEW	API	N	0	120	0	120			120	H-40	94	OTHER - WELD						
2	SURFACE	17.5	13.375	NEW	API	N	0	1850	0	1850			1850	J-55	54.5	OTHER - BTC	1.24	2.99	DRY	5.1	DRY	8.46
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5200	0	5200			5200	J-55	40	LTC	1.35	1.46	DRY	2.5	DRY	3.03
4	PRODUCTION	8.5	5.5	NEW	API	N	0	19467	0	11350			19467	P-110	20	OTHER - TMK UP DQX	1.88	2.14	DRY	2.82	DRY	2.82

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

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 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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

Casing Attachments

Casing ID: 4 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20180906105120.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
CONDUCTOR	Lead		0	120	121	1.49	12.9	181		Grout	Bentonite 4% BWOC, Cellophane #/sx, CaCl2 2% BWOC.

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	518	1.34	14.8	695	100	Class C Premium	C-45 Econolite 0.10%, CaCl 1.0%
INTERMEDIATE	Lead		0	4700	1070	3.44	10.7	3680	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	141	1.33	14.8	188	20	Class C Premium	C-45 Econolite 0.10%, Citric acid 0.05%, C503P 0.25%
PRODUCTION	Lead		0	8955	782	3.41	10.6	2667	30	TXI Lightweight	Salt 8.98#/sk, STE 6.00%, Citric acid 0.20%, CSA-1000

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		1084 8	1946 7	1990	1.24	14.2	2468	25	50:25:25 Class H: Poz: CPO18	0.23%, C47B 0.10%, C-503P 0.30% 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

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5200	1946 7	OTHER : Brine/OBM	8.8	10							
0	1850	OTHER : Fresh Water	8.6	9.5							
1850	5200	OTHER : Brine	9	10							

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: DONKEY KONG 1 FED COM

Well Number: 601H

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: 5902

Anticipated Surface Pressure: 3405

Anticipated Bottom Hole Temperature(F): 170

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Donkey_Kong_601H_H2S_Plan_20190116162120.docx

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Donkey_Kong_1_Fed_Com_601H_Plan_20180906111528.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Flex_Hose_Specs_20190107132018.pdf

Donkey_Kong_Gas_Capture_Plan_20190107163214.pdf

Other Variance attachment:

13 5/8" 5M BOP

Test 250, 3500 & 5,000 psi within this area

4" 5M Man Valve

4" 5M Man Valve

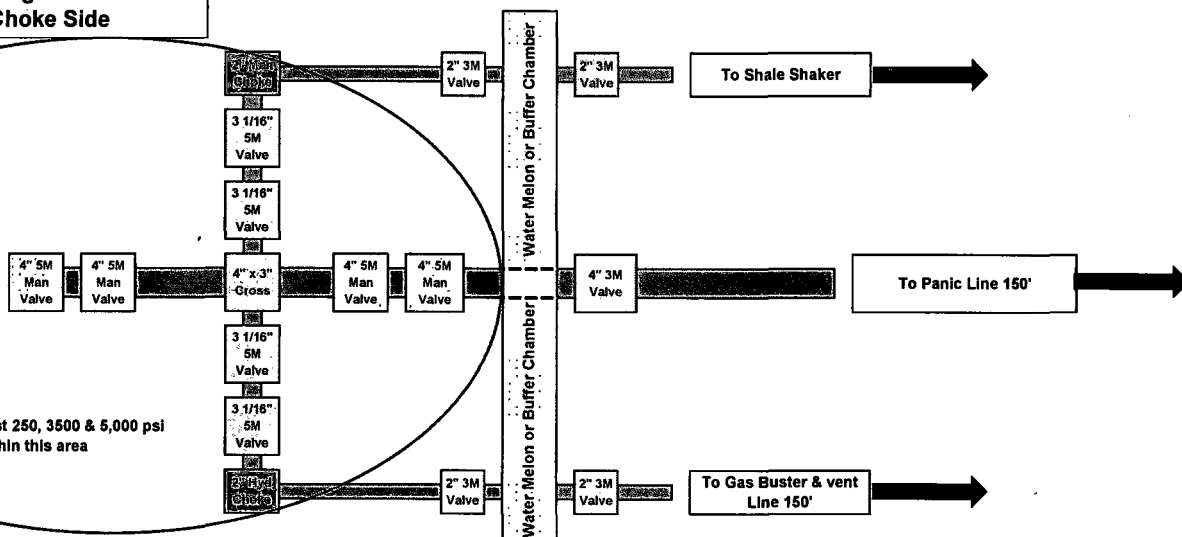
4" x 3" Gross Valve

3 1/16" 5M Valve

3 1/16" 5M Valve

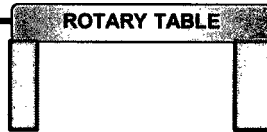
2" 3M Valve

2" 3M Valve



For Well Design	
Surface	13 3/8"
Inter.	9 5/8"
Prod.	5 1/2"

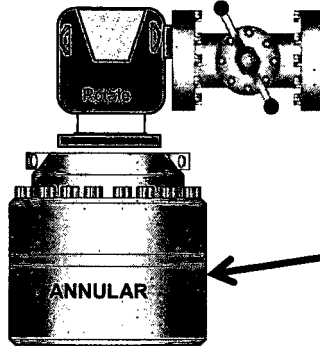
Well Name: Donkey Kong 1 Fed Com 601H



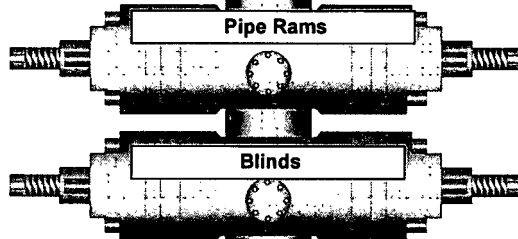
Surface

13 5/8" 5M BOPS
to drill entire Bone
Spring well or to
the top of WC in a
WC horizontal

13 5/8" 5M Hydraulic



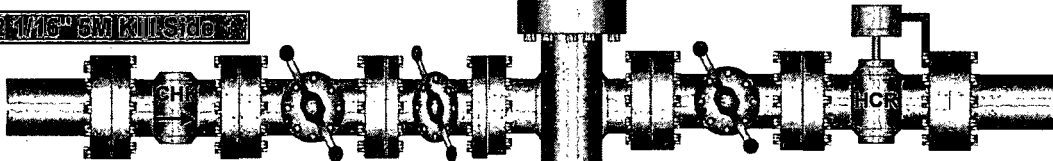
Test 250 & 3500 psi



13 5/8" 5M BOPS

Test 250 and 5000 psi

2 1/16" 5M Kill Side



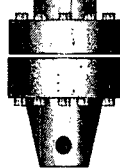
4 1/16" 5M Choke Side

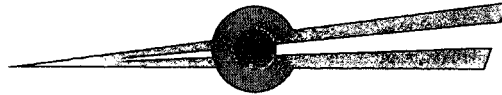
13 5/8" 5M

Rental
Drilling Spool

13 5/8" 3M
13 3/8" 3M

A - Section





CENTENNIAL

RESOURCE DEVELOPMENT, INC

HYDROGEN SULFIDE CONTINGENCY PLAN

Donkey Kong 1 Fed Com 601H

Section 1

T 23S R 34E 1940' FSL & 1356' FEL

Lea County, NM

Initial Date: 10/9/18

Revision Date:

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



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 601H

Section 1

T. 23S R. 34E 1940 FSL & 1356 FEL

Deer County, 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 VARIOUS GASES

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	CO	0.97	50 ppm	400 ppm/1hr	1000 ppm
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%
Methane	CH ₄	0.55	90000 ppm	Combustible Above 5% in Air	

1. Threshold concentration at which it is believed that all workers may repeatedly be exposed day after day, without adverse effect	2. Hazardous concentration that may cause death	3. Lethal concentration that will cause death with short-term exposure
---	---	--

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			
Concentration			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 100 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		
Concentration		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.

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/rescue 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 III Red Cont 60111

H₂S Concentration- **250** PPM

Maximum Escape Volume- **5000** MCF/Day (Block 13)

100 PPM Radius of Exposure (Block 15)- **116**
(Formula= $1.589 \times (B5/1000000) \times (B6 \times 1000) \times .6258$)

500 PPM Radius of Exposure (Block 16)- **53**
(Formula= $.4546 \times (B5/1000000) \times (B6 \times 1000) \times .6258$)

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 Response			
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 Company			
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



Centennial Resource Development, Inc.

**Lea Co., NM (NAD83)
Donkey Kong 1 Fed Com
601H**

OH

Plan: Plan #1

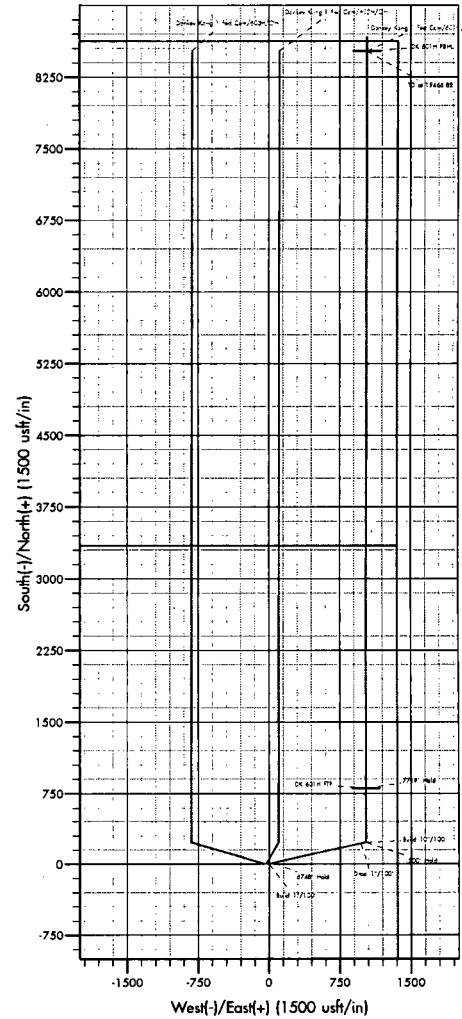
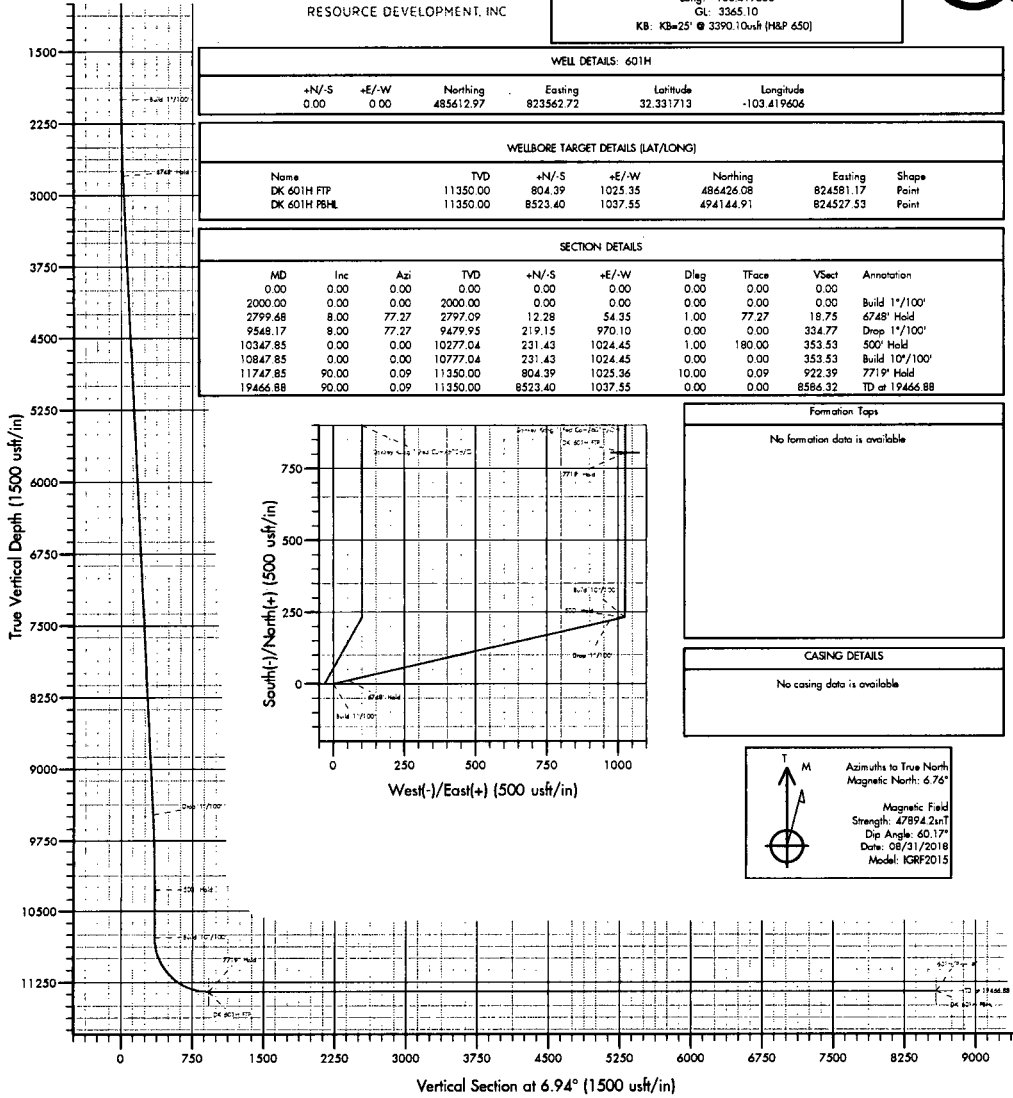
Standard Planning Report

31 August, 2018





Project: Lea Co., NM (NAD83)
Site: Donkey Kong 1 Fed Com
Well: 601H
Wellbore: OH
Design: Plan #1
Lat: 32.331713
Long: -103.419606
GL: 3365.10
KB: KB=25' @ 3390.10usf (H&P 450)



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea Co., NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Donkey Kong 1 Fed Com			
Site Position:		Northing:	485,612.97 usft	Latitude:	32.331713
From:	Map	Easting:	823,562.72 usft	Longitude:	-103.419606
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	601H					
Well Position	+N/-S	0.00 usft	Northing:	485,612.97 usft	Latitude:	32.331713
	+E/-W	0.00 usft	Easting:	823,562.72 usft	Longitude:	-103.419606
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,365.10 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	08/31/18	6.76	60.17	47,894.19690390

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	6.94

Plan Survey Tool Program	Date 08/31/18				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	19,466.88 Plan #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-SI	

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,799.68	8.00	77.27	2,797.09	12.28	54.35	1.00	1.00	0.00	77.27	
9,548.17	8.00	77.27	9,479.95	219.15	970.10	0.00	0.00	0.00	0.00	
10,347.85	0.00	0.00	10,277.04	231.43	1,024.45	1.00	-1.00	0.00	180.00	
10,847.85	0.00	0.00	10,777.04	231.43	1,024.45	0.00	0.00	0.00	0.00	
11,747.85	90.00	0.09	11,350.00	804.39	1,025.36	10.00	10.00	0.00	0.09	
19,466.88	90.00	0.09	11,350.00	8,523.40	1,037.55	0.00	0.00	0.00	0.00	DK 601H PBHL

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	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	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	77.27	2,099.99	0.19	0.85	0.29	1.00	1.00	0.00
2,200.00	2.00	77.27	2,199.96	0.77	3.40	1.17	1.00	1.00	0.00
2,300.00	3.00	77.27	2,299.86	1.73	7.66	2.64	1.00	1.00	0.00
2,400.00	4.00	77.27	2,399.68	3.08	13.61	4.70	1.00	1.00	0.00
2,500.00	5.00	77.27	2,499.37	4.80	21.27	7.34	1.00	1.00	0.00
2,600.00	6.00	77.27	2,598.90	6.92	30.62	10.57	1.00	1.00	0.00
2,700.00	7.00	77.27	2,698.26	9.41	41.66	14.38	1.00	1.00	0.00
2,799.68	8.00	77.27	2,797.09	12.28	54.35	18.75	1.00	1.00	0.00
6748' Hold									
2,900.00	8.00	77.27	2,896.43	15.35	67.96	23.45	0.00	0.00	0.00
3,000.00	8.00	77.27	2,995.46	18.42	81.53	28.13	0.00	0.00	0.00
3,100.00	8.00	77.27	3,094.49	21.48	95.10	32.82	0.00	0.00	0.00
3,200.00	8.00	77.27	3,193.51	24.55	108.67	37.50	0.00	0.00	0.00
3,300.00	8.00	77.27	3,292.54	27.61	122.24	42.18	0.00	0.00	0.00
3,400.00	8.00	77.27	3,391.57	30.68	135.81	46.87	0.00	0.00	0.00
3,500.00	8.00	77.27	3,490.60	33.75	149.38	51.55	0.00	0.00	0.00
3,600.00	8.00	77.27	3,589.62	36.81	162.95	56.23	0.00	0.00	0.00
3,700.00	8.00	77.27	3,688.65	39.88	176.52	60.91	0.00	0.00	0.00
3,800.00	8.00	77.27	3,787.68	42.94	190.09	65.60	0.00	0.00	0.00
3,900.00	8.00	77.27	3,886.71	46.01	203.66	70.28	0.00	0.00	0.00
4,000.00	8.00	77.27	3,985.73	49.07	217.23	74.96	0.00	0.00	0.00
4,100.00	8.00	77.27	4,084.76	52.14	230.80	79.65	0.00	0.00	0.00
4,200.00	8.00	77.27	4,183.79	55.20	244.37	84.33	0.00	0.00	0.00
4,300.00	8.00	77.27	4,282.82	58.27	257.94	89.01	0.00	0.00	0.00
4,400.00	8.00	77.27	4,381.84	61.34	271.51	93.69	0.00	0.00	0.00
4,500.00	8.00	77.27	4,480.87	64.40	285.08	98.38	0.00	0.00	0.00
4,600.00	8.00	77.27	4,579.90	67.47	298.65	103.06	0.00	0.00	0.00
4,700.00	8.00	77.27	4,678.93	70.53	312.22	107.74	0.00	0.00	0.00
4,800.00	8.00	77.27	4,777.95	73.60	325.79	112.43	0.00	0.00	0.00
4,900.00	8.00	77.27	4,876.98	76.66	339.36	117.11	0.00	0.00	0.00
5,000.00	8.00	77.27	4,976.01	79.73	352.93	121.79	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Corn	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	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)
5,100.00	8.00	77.27	5,075.04	82.79	366.50	126.47	0.00	0.00	0.00
5,200.00	8.00	77.27	5,174.07	85.86	380.07	131.16	0.00	0.00	0.00
5,300.00	8.00	77.27	5,273.09	88.92	393.63	135.84	0.00	0.00	0.00
5,400.00	8.00	77.27	5,372.12	91.99	407.20	140.52	0.00	0.00	0.00
5,500.00	8.00	77.27	5,471.15	95.06	420.77	145.20	0.00	0.00	0.00
5,600.00	8.00	77.27	5,570.18	98.12	434.34	149.89	0.00	0.00	0.00
5,700.00	8.00	77.27	5,669.20	101.19	447.91	154.57	0.00	0.00	0.00
5,800.00	8.00	77.27	5,768.23	104.25	461.48	159.25	0.00	0.00	0.00
5,900.00	8.00	77.27	5,867.26	107.32	475.05	163.94	0.00	0.00	0.00
6,000.00	8.00	77.27	5,966.29	110.38	488.62	168.62	0.00	0.00	0.00
6,100.00	8.00	77.27	6,065.31	113.45	502.19	173.30	0.00	0.00	0.00
6,200.00	8.00	77.27	6,164.34	116.51	515.76	177.98	0.00	0.00	0.00
6,300.00	8.00	77.27	6,263.37	119.58	529.33	182.67	0.00	0.00	0.00
6,400.00	8.00	77.27	6,362.40	122.65	542.90	187.35	0.00	0.00	0.00
6,500.00	8.00	77.27	6,461.42	125.71	556.47	192.03	0.00	0.00	0.00
6,600.00	8.00	77.27	6,560.45	128.78	570.04	196.72	0.00	0.00	0.00
6,700.00	8.00	77.27	6,659.48	131.84	583.61	201.40	0.00	0.00	0.00
6,800.00	8.00	77.27	6,758.51	134.91	597.18	206.08	0.00	0.00	0.00
6,900.00	8.00	77.27	6,857.53	137.97	610.75	210.76	0.00	0.00	0.00
7,000.00	8.00	77.27	6,956.56	141.04	624.32	215.45	0.00	0.00	0.00
7,100.00	8.00	77.27	7,055.59	144.10	637.89	220.13	0.00	0.00	0.00
7,200.00	8.00	77.27	7,154.62	147.17	651.46	224.81	0.00	0.00	0.00
7,300.00	8.00	77.27	7,253.64	150.23	665.03	229.50	0.00	0.00	0.00
7,400.00	8.00	77.27	7,352.67	153.30	678.60	234.18	0.00	0.00	0.00
7,500.00	8.00	77.27	7,451.70	156.37	692.17	238.86	0.00	0.00	0.00
7,600.00	8.00	77.27	7,550.73	159.43	705.74	243.54	0.00	0.00	0.00
7,700.00	8.00	77.27	7,649.75	162.50	719.31	248.23	0.00	0.00	0.00
7,800.00	8.00	77.27	7,748.78	165.56	732.88	252.91	0.00	0.00	0.00
7,900.00	8.00	77.27	7,847.81	168.63	746.45	257.59	0.00	0.00	0.00
8,000.00	8.00	77.27	7,946.84	171.69	760.02	262.27	0.00	0.00	0.00
8,100.00	8.00	77.27	8,045.87	174.76	773.59	266.96	0.00	0.00	0.00
8,200.00	8.00	77.27	8,144.89	177.82	787.16	271.64	0.00	0.00	0.00
8,300.00	8.00	77.27	8,243.92	180.89	800.73	276.32	0.00	0.00	0.00
8,400.00	8.00	77.27	8,342.95	183.96	814.30	281.01	0.00	0.00	0.00
8,500.00	8.00	77.27	8,441.98	187.02	827.87	285.69	0.00	0.00	0.00
8,600.00	8.00	77.27	8,541.00	190.09	841.44	290.37	0.00	0.00	0.00
8,700.00	8.00	77.27	8,640.03	193.15	855.01	295.05	0.00	0.00	0.00
8,800.00	8.00	77.27	8,739.06	196.22	868.58	299.74	0.00	0.00	0.00
8,900.00	8.00	77.27	8,838.09	199.28	882.15	304.42	0.00	0.00	0.00
9,000.00	8.00	77.27	8,937.11	202.35	895.72	309.10	0.00	0.00	0.00
9,100.00	8.00	77.27	9,036.14	205.41	909.29	313.79	0.00	0.00	0.00
9,200.00	8.00	77.27	9,135.17	208.48	922.86	318.47	0.00	0.00	0.00
9,300.00	8.00	77.27	9,234.20	211.55	936.43	323.15	0.00	0.00	0.00
9,400.00	8.00	77.27	9,333.22	214.61	950.00	327.83	0.00	0.00	0.00
9,500.00	8.00	77.27	9,432.25	217.68	963.57	332.52	0.00	0.00	0.00
9,548.17	8.00	77.27	9,479.95	219.15	970.10	334.77	0.00	0.00	0.00
Drop 1°/100'									
9,600.00	7.48	77.27	9,531.31	220.69	976.91	337.12	1.00	-1.00	0.00
9,700.00	6.48	77.27	9,630.57	223.37	988.76	341.21	1.00	-1.00	0.00
9,800.00	5.48	77.27	9,730.02	225.66	998.92	344.72	1.00	-1.00	0.00
9,900.00	4.48	77.27	9,829.65	227.58	1,007.39	347.64	1.00	-1.00	0.00
10,000.00	3.48	77.27	9,929.40	229.10	1,014.15	349.97	1.00	-1.00	0.00
10,100.00	2.48	77.27	10,029.27	230.25	1,019.22	351.72	1.00	-1.00	0.00
10,200.00	1.48	77.27	10,129.21	231.01	1,022.59	352.88	1.00	-1.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	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)
10,300.00	0.48	77.27	10,229.19	231.39	1,024.26	353.46	1.00	-1.00	0.00
10,347.85	0.00	0.00	10,277.04	231.43	1,024.45	353.53	1.00	-1.00	0.00
500' Hold									
10,400.00	0.00	0.00	10,329.19	231.43	1,024.45	353.53	0.00	0.00	0.00
10,500.00	0.00	0.00	10,429.19	231.43	1,024.45	353.53	0.00	0.00	0.00
10,600.00	0.00	0.00	10,529.19	231.43	1,024.45	353.53	0.00	0.00	0.00
10,700.00	0.00	0.00	10,629.19	231.43	1,024.45	353.53	0.00	0.00	0.00
10,800.00	0.00	0.00	10,729.19	231.43	1,024.45	353.53	0.00	0.00	0.00
10,847.85	0.00	0.00	10,777.04	231.43	1,024.45	353.53	0.00	0.00	0.00
Build 10°/100'									
10,850.00	0.21	0.09	10,779.19	231.43	1,024.45	353.53	10.00	10.00	0.00
10,900.00	5.21	0.09	10,829.12	233.80	1,024.45	355.88	10.00	10.00	0.00
10,950.00	10.21	0.09	10,878.65	240.51	1,024.46	362.54	10.00	10.00	0.00
11,000.00	15.21	0.09	10,927.41	251.51	1,024.48	373.47	10.00	10.00	0.00
11,050.00	20.21	0.09	10,975.02	266.72	1,024.51	388.57	10.00	10.00	0.00
11,100.00	25.21	0.09	11,021.13	286.02	1,024.54	407.73	10.00	10.00	0.00
11,150.00	30.21	0.09	11,065.38	309.27	1,024.57	430.81	10.00	10.00	0.00
11,200.00	35.21	0.09	11,107.43	336.28	1,024.62	457.63	10.00	10.00	0.00
11,250.00	40.21	0.09	11,146.97	366.86	1,024.66	487.99	10.00	10.00	0.00
11,300.00	45.21	0.09	11,183.70	400.77	1,024.72	521.65	10.00	10.00	0.00
11,350.00	50.21	0.09	11,217.33	437.74	1,024.78	558.37	10.00	10.00	0.00
11,400.00	55.21	0.09	11,247.61	477.51	1,024.84	597.85	10.00	10.00	0.00
11,450.00	60.21	0.09	11,274.31	519.77	1,024.91	639.81	10.00	10.00	0.00
11,500.00	65.21	0.09	11,297.22	564.19	1,024.98	683.91	10.00	10.00	0.00
11,550.00	70.21	0.09	11,316.18	610.44	1,025.05	729.83	10.00	10.00	0.00
11,600.00	75.21	0.09	11,331.03	658.17	1,025.12	777.22	10.00	10.00	0.00
11,650.00	80.21	0.09	11,341.66	707.01	1,025.20	825.71	10.00	10.00	0.00
11,700.00	85.21	0.09	11,348.00	756.59	1,025.28	874.94	10.00	10.00	0.00
11,747.85	90.00	0.09	11,350.00	804.39	1,025.36	922.39	10.00	10.00	0.00
7719' Hold									
11,800.00	90.00	0.09	11,350.00	856.53	1,025.44	974.17	0.00	0.00	0.00
11,900.00	90.00	0.09	11,350.00	956.53	1,025.60	1,073.46	0.00	0.00	0.00
12,000.00	90.00	0.09	11,350.00	1,056.53	1,025.75	1,172.74	0.00	0.00	0.00
12,100.00	90.00	0.09	11,350.00	1,156.53	1,025.91	1,272.03	0.00	0.00	0.00
12,200.00	90.00	0.09	11,350.00	1,256.53	1,026.07	1,371.31	0.00	0.00	0.00
12,300.00	90.00	0.09	11,350.00	1,356.53	1,026.23	1,470.60	0.00	0.00	0.00
12,400.00	90.00	0.09	11,350.00	1,456.53	1,026.39	1,569.89	0.00	0.00	0.00
12,500.00	90.00	0.09	11,350.00	1,556.53	1,026.54	1,669.17	0.00	0.00	0.00
12,600.00	90.00	0.09	11,350.00	1,656.53	1,026.70	1,768.46	0.00	0.00	0.00
12,700.00	90.00	0.09	11,350.00	1,756.53	1,026.86	1,867.75	0.00	0.00	0.00
12,800.00	90.00	0.09	11,350.00	1,856.53	1,027.02	1,967.03	0.00	0.00	0.00
12,900.00	90.00	0.09	11,350.00	1,956.53	1,027.18	2,066.32	0.00	0.00	0.00
13,000.00	90.00	0.09	11,350.00	2,056.53	1,027.33	2,165.60	0.00	0.00	0.00
13,100.00	90.00	0.09	11,350.00	2,156.53	1,027.49	2,264.89	0.00	0.00	0.00
13,200.00	90.00	0.09	11,350.00	2,256.53	1,027.65	2,364.18	0.00	0.00	0.00
13,300.00	90.00	0.09	11,350.00	2,356.53	1,027.81	2,463.46	0.00	0.00	0.00
13,400.00	90.00	0.09	11,350.00	2,456.53	1,027.97	2,562.75	0.00	0.00	0.00
13,500.00	90.00	0.09	11,350.00	2,556.53	1,028.12	2,662.03	0.00	0.00	0.00
13,600.00	90.00	0.09	11,350.00	2,656.53	1,028.28	2,761.32	0.00	0.00	0.00
13,700.00	90.00	0.09	11,350.00	2,756.53	1,028.44	2,860.61	0.00	0.00	0.00
13,800.00	90.00	0.09	11,350.00	2,856.53	1,028.60	2,959.89	0.00	0.00	0.00
13,900.00	90.00	0.09	11,350.00	2,956.53	1,028.76	3,059.18	0.00	0.00	0.00
14,000.00	90.00	0.09	11,350.00	3,056.53	1,028.91	3,158.47	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	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)
14,100.00	90.00	0.09	11,350.00	3,156.53	1,029.07	3,257.75	0.00	0.00	0.00
14,200.00	90.00	0.09	11,350.00	3,256.53	1,029.23	3,357.04	0.00	0.00	0.00
14,300.00	90.00	0.09	11,350.00	3,356.53	1,029.39	3,456.32	0.00	0.00	0.00
14,400.00	90.00	0.09	11,350.00	3,456.53	1,029.55	3,555.61	0.00	0.00	0.00
14,500.00	90.00	0.09	11,350.00	3,556.53	1,029.70	3,654.90	0.00	0.00	0.00
14,600.00	90.00	0.09	11,350.00	3,656.53	1,029.86	3,754.18	0.00	0.00	0.00
14,700.00	90.00	0.09	11,350.00	3,756.53	1,030.02	3,853.47	0.00	0.00	0.00
14,800.00	90.00	0.09	11,350.00	3,856.53	1,030.18	3,952.76	0.00	0.00	0.00
14,900.00	90.00	0.09	11,350.00	3,956.53	1,030.34	4,052.04	0.00	0.00	0.00
15,000.00	90.00	0.09	11,350.00	4,056.53	1,030.49	4,151.33	0.00	0.00	0.00
15,100.00	90.00	0.09	11,350.00	4,156.53	1,030.65	4,250.61	0.00	0.00	0.00
15,200.00	90.00	0.09	11,350.00	4,256.53	1,030.81	4,349.90	0.00	0.00	0.00
15,300.00	90.00	0.09	11,350.00	4,356.53	1,030.97	4,449.19	0.00	0.00	0.00
15,400.00	90.00	0.09	11,350.00	4,456.53	1,031.13	4,548.47	0.00	0.00	0.00
15,500.00	90.00	0.09	11,350.00	4,556.53	1,031.28	4,647.76	0.00	0.00	0.00
15,600.00	90.00	0.09	11,350.00	4,656.53	1,031.44	4,747.04	0.00	0.00	0.00
15,700.00	90.00	0.09	11,350.00	4,756.53	1,031.60	4,846.33	0.00	0.00	0.00
15,800.00	90.00	0.09	11,350.00	4,856.53	1,031.76	4,945.62	0.00	0.00	0.00
15,900.00	90.00	0.09	11,350.00	4,956.53	1,031.92	5,044.90	0.00	0.00	0.00
16,000.00	90.00	0.09	11,350.00	5,056.53	1,032.08	5,144.19	0.00	0.00	0.00
16,100.00	90.00	0.09	11,350.00	5,156.53	1,032.23	5,243.48	0.00	0.00	0.00
16,200.00	90.00	0.09	11,350.00	5,256.53	1,032.39	5,342.76	0.00	0.00	0.00
16,300.00	90.00	0.09	11,350.00	5,356.53	1,032.55	5,442.05	0.00	0.00	0.00
16,400.00	90.00	0.09	11,350.00	5,456.53	1,032.71	5,541.33	0.00	0.00	0.00
16,500.00	90.00	0.09	11,350.00	5,556.53	1,032.87	5,640.62	0.00	0.00	0.00
16,600.00	90.00	0.09	11,350.00	5,656.53	1,033.02	5,739.91	0.00	0.00	0.00
16,700.00	90.00	0.09	11,350.00	5,756.53	1,033.18	5,839.19	0.00	0.00	0.00
16,800.00	90.00	0.09	11,350.00	5,856.53	1,033.34	5,938.48	0.00	0.00	0.00
16,900.00	90.00	0.09	11,350.00	5,956.53	1,033.50	6,037.77	0.00	0.00	0.00
17,000.00	90.00	0.09	11,350.00	6,056.53	1,033.66	6,137.05	0.00	0.00	0.00
17,100.00	90.00	0.09	11,350.00	6,156.53	1,033.81	6,236.34	0.00	0.00	0.00
17,200.00	90.00	0.09	11,350.00	6,256.53	1,033.97	6,335.62	0.00	0.00	0.00
17,300.00	90.00	0.09	11,350.00	6,356.53	1,034.13	6,434.91	0.00	0.00	0.00
17,400.00	90.00	0.09	11,350.00	6,456.53	1,034.29	6,534.20	0.00	0.00	0.00
17,500.00	90.00	0.09	11,350.00	6,556.53	1,034.45	6,633.48	0.00	0.00	0.00
17,600.00	90.00	0.09	11,350.00	6,656.53	1,034.60	6,732.77	0.00	0.00	0.00
17,700.00	90.00	0.09	11,350.00	6,756.53	1,034.76	6,832.05	0.00	0.00	0.00
17,800.00	90.00	0.09	11,350.00	6,856.53	1,034.92	6,931.34	0.00	0.00	0.00
17,900.00	90.00	0.09	11,350.00	6,956.53	1,035.08	7,030.63	0.00	0.00	0.00
18,000.00	90.00	0.09	11,350.00	7,056.53	1,035.24	7,129.91	0.00	0.00	0.00
18,100.00	90.00	0.09	11,350.00	7,156.53	1,035.39	7,229.20	0.00	0.00	0.00
18,200.00	90.00	0.09	11,350.00	7,256.53	1,035.55	7,328.49	0.00	0.00	0.00
18,300.00	90.00	0.09	11,350.00	7,356.53	1,035.71	7,427.77	0.00	0.00	0.00
18,400.00	90.00	0.09	11,350.00	7,456.53	1,035.87	7,527.06	0.00	0.00	0.00
18,500.00	90.00	0.09	11,350.00	7,556.53	1,036.03	7,626.34	0.00	0.00	0.00
18,600.00	90.00	0.09	11,350.00	7,656.53	1,036.18	7,725.63	0.00	0.00	0.00
18,700.00	90.00	0.09	11,350.00	7,756.53	1,036.34	7,824.92	0.00	0.00	0.00
18,800.00	90.00	0.09	11,350.00	7,856.53	1,036.50	7,924.20	0.00	0.00	0.00
18,900.00	90.00	0.09	11,350.00	7,956.53	1,036.66	8,023.49	0.00	0.00	0.00
19,000.00	90.00	0.09	11,350.00	8,056.53	1,036.82	8,122.78	0.00	0.00	0.00
19,100.00	90.00	0.09	11,350.00	8,156.52	1,036.97	8,222.06	0.00	0.00	0.00
19,200.00	90.00	0.09	11,350.00	8,256.52	1,037.13	8,321.35	0.00	0.00	0.00
19,300.00	90.00	0.09	11,350.00	8,356.52	1,037.29	8,420.63	0.00	0.00	0.00
19,400.00	90.00	0.09	11,350.00	8,456.52	1,037.45	8,519.92	0.00	0.00	0.00

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	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)
19,466.88	90.00	0.09	11,350.00	8,523.40	1,037.55	8,586.32	0.00	0.00	0.00
TD at 19466.88									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
DK 601H FTP	0.00	0.00	11,350.00	804.39	1,025.35	486,426.08	824,581.17	32.333924	-103.416287
- hit/miss target									
- Shape									
- plan misses target center by 0.01usft at 11747.86usft MD (11350.00 TVD, 804.39 N, 1025.36 E)									
- Point									
DK 601H PBHL	0.00	0.00	11,350.00	8,523.40	1,037.55	494,144.91	824,527.53	32.355141	-103.416246
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Build 1°/100'
2,799.68	2,797.09	12.28	54.35	6748' Hold
9,548.17	9,479.95	219.15	970.10	Drop 1°/100'
10,347.85	10,277.04	231.43	1,024.45	500' Hold
10,847.85	10,777.04	231.43	1,024.45	Build 10°/100'
11,747.85	11,350.00	804.39	1,025.36	7719' Hold
19,466.88	11,350.00	8,523.40	1,037.55	TD at 19466.88



Centennial Resource Development, Inc.

**Lea Co., NM (NAD83)
Donkey Kong 1 Fed Com
601H**

OH

Plan: Plan #1

Standard Planning Report - Geographic

31 August, 2018



Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea Co., NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Donkey Kong 1 Fed Com			
Site Position:		Northing:	485,612.97 usft	Latitude:	32.331713
From:	Map	Easting:	823,562.72 usft	Longitude:	-103.419606
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	601H					
Well Position	+N/-S	0.00 usft	Northing:	485,612.97 usft	Latitude:	32.331713
	+E/-W	0.00 usft	Easting:	823,562.72 usft	Longitude:	-103.419606
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,365.10 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	08/31/18	6.76	60.17	47,894.19690390

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	6.94

Plan Survey Tool Program	Date	08/31/18		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,466.88 Plan #1 (OH)	MWD+IFR1+MS OWSG MWD + IFR1 + Multi-S	

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	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,799.68	8.00	77.27	2,797.09	12.28	54.35	1.00	1.00	0.00	77.27	
9,548.17	8.00	77.27	9,479.95	219.15	970.10	0.00	0.00	0.00	0.00	
10,347.85	0.00	0.00	10,277.04	231.43	1,024.45	1.00	-1.00	0.00	180.00	
10,847.85	0.00	0.00	10,777.04	231.43	1,024.45	0.00	0.00	0.00	0.00	
11,747.85	90.00	0.09	11,350.00	804.39	1,025.36	10.00	10.00	0.00	0.09	
19,466.88	90.00	0.09	11,350.00	8,523.40	1,037.55	0.00	0.00	0.00	0.00	DK 601H PBHL

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
100.00	0.00	0.00	100.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
200.00	0.00	0.00	200.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
300.00	0.00	0.00	300.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
400.00	0.00	0.00	400.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
500.00	0.00	0.00	500.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
600.00	0.00	0.00	600.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
700.00	0.00	0.00	700.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
800.00	0.00	0.00	800.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
900.00	0.00	0.00	900.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,000.00	0.00	0.00	1,000.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,100.00	0.00	0.00	1,100.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,200.00	0.00	0.00	1,200.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,300.00	0.00	0.00	1,300.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,400.00	0.00	0.00	1,400.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,500.00	0.00	0.00	1,500.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,600.00	0.00	0.00	1,600.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,700.00	0.00	0.00	1,700.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,800.00	0.00	0.00	1,800.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
1,900.00	0.00	0.00	1,900.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
2,000.00	0.00	0.00	2,000.00	0.00	0.00	485,612.97	823,562.72	32.331713	-103.419606
Build 1°/100'									
2,100.00	1.00	77.27	2,099.99	0.19	0.85	485,613.17	823,563.57	32.331714	-103.419604
2,200.00	2.00	77.27	2,199.96	0.77	3.40	485,613.77	823,566.12	32.331715	-103.419595
2,300.00	3.00	77.27	2,299.86	1.73	7.66	485,614.77	823,570.36	32.331718	-103.419582
2,400.00	4.00	77.27	2,399.68	3.08	13.61	485,616.16	823,576.31	32.331722	-103.419562
2,500.00	5.00	77.27	2,499.37	4.80	21.27	485,617.96	823,583.94	32.331726	-103.419537
2,600.00	6.00	77.27	2,598.90	6.92	30.62	485,620.15	823,593.27	32.331732	-103.419507
2,700.00	7.00	77.27	2,698.26	9.41	41.66	485,622.74	823,604.29	32.331739	-103.419471
2,799.68	8.00	77.27	2,797.09	12.28	54.35	485,625.71	823,616.96	32.331747	-103.419430
6748' Hold									
2,900.00	8.00	77.27	2,896.43	15.35	67.96	485,628.90	823,630.54	32.331755	-103.419386
3,000.00	8.00	77.27	2,995.46	18.42	81.53	485,632.08	823,644.09	32.331764	-103.419342
3,100.00	8.00	77.27	3,094.49	21.48	95.10	485,635.26	823,657.63	32.331772	-103.419298
3,200.00	8.00	77.27	3,193.51	24.55	108.67	485,638.45	823,671.17	32.331781	-103.419255
3,300.00	8.00	77.27	3,292.54	27.61	122.24	485,641.63	823,684.72	32.331789	-103.419211
3,400.00	8.00	77.27	3,391.57	30.68	135.81	485,644.81	823,698.26	32.331798	-103.419167
3,500.00	8.00	77.27	3,490.60	33.75	149.38	485,647.99	823,711.80	32.331806	-103.419123
3,600.00	8.00	77.27	3,589.62	36.81	162.95	485,651.17	823,725.35	32.331814	-103.419079
3,700.00	8.00	77.27	3,688.65	39.88	176.52	485,654.35	823,738.89	32.331823	-103.419035
3,800.00	8.00	77.27	3,787.68	42.94	190.09	485,657.53	823,752.43	32.331831	-103.418991
3,900.00	8.00	77.27	3,886.71	46.01	203.66	485,660.71	823,765.98	32.331840	-103.418947
4,000.00	8.00	77.27	3,985.73	49.07	217.23	485,663.90	823,779.52	32.331848	-103.418903
4,100.00	8.00	77.27	4,084.76	52.14	230.80	485,667.08	823,793.06	32.331857	-103.418859
4,200.00	8.00	77.27	4,183.79	55.20	244.37	485,670.26	823,806.61	32.331865	-103.418815
4,300.00	8.00	77.27	4,282.82	58.27	257.94	485,673.44	823,820.15	32.331873	-103.418771
4,400.00	8.00	77.27	4,381.84	61.34	271.51	485,676.62	823,833.69	32.331882	-103.418727
4,500.00	8.00	77.27	4,480.87	64.40	285.08	485,679.80	823,847.23	32.331890	-103.418683
4,600.00	8.00	77.27	4,579.90	67.47	298.65	485,682.98	823,860.78	32.331899	-103.418640
4,700.00	8.00	77.27	4,678.93	70.53	312.22	485,686.16	823,874.32	32.331907	-103.418596
4,800.00	8.00	77.27	4,777.95	73.60	325.79	485,689.34	823,887.86	32.331916	-103.418552
4,900.00	8.00	77.27	4,876.98	76.66	339.36	485,692.53	823,901.41	32.331924	-103.418508
5,000.00	8.00	77.27	4,976.01	79.73	352.93	485,695.71	823,914.95	32.331932	-103.418464
5,100.00	8.00	77.27	5,075.04	82.79	366.50	485,698.89	823,928.49	32.331941	-103.418420

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
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Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,200.00	8.00	77.27	5,174.07	85.86	380.07	485,702.07	823,942.04	32.331949	-103.418376
5,300.00	8.00	77.27	5,273.09	88.92	393.63	485,705.25	823,955.58	32.331958	-103.418332
5,400.00	8.00	77.27	5,372.12	91.99	407.20	485,708.43	823,969.12	32.331966	-103.418288
5,500.00	8.00	77.27	5,471.15	95.06	420.77	485,711.61	823,982.67	32.331974	-103.418244
5,600.00	8.00	77.27	5,570.18	98.12	434.34	485,714.79	823,996.21	32.331983	-103.418200
5,700.00	8.00	77.27	5,669.20	101.19	447.91	485,717.97	824,009.75	32.331991	-103.418156
5,800.00	8.00	77.27	5,768.23	104.25	461.48	485,721.16	824,023.30	32.332000	-103.418112
5,900.00	8.00	77.27	5,867.26	107.32	475.05	485,724.34	824,036.84	32.332008	-103.418068
6,000.00	8.00	77.27	5,966.29	110.38	488.62	485,727.52	824,050.38	32.332017	-103.418024
6,100.00	8.00	77.27	6,065.31	113.45	502.19	485,730.70	824,063.93	32.332025	-103.417981
6,200.00	8.00	77.27	6,164.34	116.51	515.76	485,733.88	824,077.47	32.332033	-103.417937
6,300.00	8.00	77.27	6,263.37	119.58	529.33	485,737.06	824,091.01	32.332042	-103.417893
6,400.00	8.00	77.27	6,362.40	122.65	542.90	485,740.24	824,104.56	32.332050	-103.417849
6,500.00	8.00	77.27	6,461.42	125.71	556.47	485,743.42	824,118.10	32.332059	-103.417805
6,600.00	8.00	77.27	6,560.45	128.78	570.04	485,746.61	824,131.64	32.332067	-103.417761
6,700.00	8.00	77.27	6,659.48	131.84	583.61	485,749.79	824,145.18	32.332076	-103.417717
6,800.00	8.00	77.27	6,758.51	134.91	597.18	485,752.97	824,158.73	32.332084	-103.417673
6,900.00	8.00	77.27	6,857.53	137.97	610.75	485,756.15	824,172.27	32.332092	-103.417629
7,000.00	8.00	77.27	6,956.56	141.04	624.32	485,759.33	824,185.81	32.332101	-103.417585
7,100.00	8.00	77.27	7,055.59	144.10	637.89	485,762.51	824,199.36	32.332109	-103.417541
7,200.00	8.00	77.27	7,154.62	147.17	651.46	485,765.69	824,212.90	32.332118	-103.417497
7,300.00	8.00	77.27	7,253.64	150.23	665.03	485,768.87	824,226.44	32.332126	-103.417453
7,400.00	8.00	77.27	7,352.67	153.30	678.60	485,772.05	824,239.99	32.332135	-103.417409
7,500.00	8.00	77.27	7,451.70	156.37	692.17	485,775.24	824,253.53	32.332143	-103.417366
7,600.00	8.00	77.27	7,550.73	159.43	705.74	485,778.42	824,267.07	32.332151	-103.417322
7,700.00	8.00	77.27	7,649.75	162.50	719.31	485,781.60	824,280.62	32.332160	-103.417278
7,800.00	8.00	77.27	7,748.78	165.56	732.88	485,784.78	824,294.16	32.332168	-103.417234
7,900.00	8.00	77.27	7,847.81	168.63	746.45	485,787.96	824,307.70	32.332177	-103.417190
8,000.00	8.00	77.27	7,946.84	171.69	760.02	485,791.14	824,321.25	32.332185	-103.417146
8,100.00	8.00	77.27	8,045.87	174.76	773.59	485,794.32	824,334.79	32.332194	-103.417102
8,200.00	8.00	77.27	8,144.89	177.82	787.16	485,797.50	824,348.33	32.332202	-103.417058
8,300.00	8.00	77.27	8,243.92	180.89	800.73	485,800.68	824,361.88	32.332210	-103.417014
8,400.00	8.00	77.27	8,342.95	183.96	814.30	485,803.87	824,375.42	32.332219	-103.416970
8,500.00	8.00	77.27	8,441.98	187.02	827.87	485,807.05	824,388.96	32.332227	-103.416926
8,600.00	8.00	77.27	8,541.00	190.09	841.44	485,810.23	824,402.51	32.332236	-103.416882
8,700.00	8.00	77.27	8,640.03	193.15	855.01	485,813.41	824,416.05	32.332244	-103.416838
8,800.00	8.00	77.27	8,739.06	196.22	868.58	485,816.59	824,429.59	32.332253	-103.416794
8,900.00	8.00	77.27	8,838.09	199.28	882.15	485,819.77	824,443.13	32.332261	-103.416750
9,000.00	8.00	77.27	8,937.11	202.35	895.72	485,822.95	824,456.68	32.332269	-103.416707
9,100.00	8.00	77.27	9,036.14	205.41	909.29	485,826.13	824,470.22	32.332278	-103.416663
9,200.00	8.00	77.27	9,135.17	208.48	922.86	485,829.32	824,483.76	32.332286	-103.416619
9,300.00	8.00	77.27	9,234.20	211.55	936.43	485,832.50	824,497.31	32.332295	-103.416575
9,400.00	8.00	77.27	9,333.22	214.61	950.00	485,835.68	824,510.85	32.332303	-103.416531
9,500.00	8.00	77.27	9,432.25	217.68	963.57	485,838.86	824,524.39	32.332312	-103.416487
9,548.17	8.00	77.27	9,479.95	219.15	970.10	485,840.39	824,530.92	32.332316	-103.416466
Drop 1"/100'									
9,600.00	7.48	77.27	9,531.31	220.69	976.91	485,841.99	824,537.71	32.332320	-103.416444
9,700.00	6.48	77.27	9,630.57	223.37	988.76	485,844.76	824,549.54	32.332327	-103.416405
9,800.00	5.48	77.27	9,730.02	225.66	998.92	485,847.15	824,559.68	32.332333	-103.416372
9,900.00	4.48	77.27	9,829.65	227.58	1,007.39	485,849.13	824,568.13	32.332339	-103.416345
10,000.00	3.48	77.27	9,929.40	229.10	1,014.15	485,850.72	824,574.88	32.332343	-103.416323
10,100.00	2.48	77.27	10,029.27	230.25	1,019.22	485,851.91	824,579.94	32.332346	-103.416307
10,200.00	1.48	77.27	10,129.21	231.01	1,022.59	485,852.69	824,583.30	32.332348	-103.416296
10,300.00	0.48	77.27	10,229.19	231.39	1,024.26	485,853.09	824,584.96	32.332349	-103.416290

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,347.85	0.00	0.00	10,277.04	231.43	1,024.45	485,853.13	824,585.16	32.332349	-103.416290
500' Hold									
10,400.00	0.00	0.00	10,329.19	231.43	1,024.45	485,853.13	824,585.16	32.332349	-103.416290
10,500.00	0.00	0.00	10,429.19	231.43	1,024.45	485,853.13	824,585.16	32.332349	-103.416290
10,600.00	0.00	0.00	10,529.19	231.43	1,024.45	485,853.13	824,585.16	32.332349	-103.416290
10,700.00	0.00	0.00	10,629.19	231.43	1,024.45	485,853.13	824,585.16	32.332349	-103.416290
10,800.00	0.00	0.00	10,729.19	231.43	1,024.45	485,853.13	824,585.16	32.332349	-103.416290
10,847.85	0.00	0.00	10,777.04	231.43	1,024.45	485,853.13	824,585.16	32.332349	-103.416290
Build 10°/100'									
10,850.00	0.21	0.09	10,779.19	231.43	1,024.45	485,853.14	824,585.16	32.332349	-103.416290
10,900.00	5.21	0.09	10,829.12	233.80	1,024.45	485,855.50	824,585.14	32.332356	-103.416290
10,950.00	10.21	0.09	10,878.65	240.51	1,024.46	485,862.21	824,585.09	32.332374	-103.416290
11,000.00	15.21	0.09	10,927.41	251.51	1,024.48	485,873.21	824,585.02	32.332405	-103.416290
11,050.00	20.21	0.09	10,975.02	266.72	1,024.51	485,888.42	824,584.91	32.332446	-103.416290
11,100.00	25.21	0.09	11,021.13	286.02	1,024.54	485,907.72	824,584.78	32.332499	-103.416290
11,150.00	30.21	0.09	11,065.38	309.27	1,024.57	485,930.97	824,584.62	32.332563	-103.416289
11,200.00	35.21	0.09	11,107.43	336.28	1,024.62	485,957.98	824,584.43	32.332638	-103.416289
11,250.00	40.21	0.09	11,146.97	366.86	1,024.66	485,988.56	824,584.22	32.332722	-103.416289
11,300.00	45.21	0.09	11,183.70	400.77	1,024.72	486,022.46	824,583.98	32.332815	-103.416289
11,350.00	50.21	0.09	11,217.33	437.74	1,024.78	486,059.44	824,583.72	32.332916	-103.416289
11,400.00	55.21	0.09	11,247.61	477.51	1,024.84	486,099.21	824,583.45	32.333026	-103.416289
11,450.00	60.21	0.09	11,274.31	519.77	1,024.91	486,141.46	824,583.15	32.333142	-103.416288
11,500.00	65.21	0.09	11,297.22	564.19	1,024.98	486,185.89	824,582.84	32.333264	-103.416288
11,550.00	70.21	0.09	11,316.18	610.44	1,025.05	486,232.14	824,582.52	32.333391	-103.416288
11,600.00	75.21	0.09	11,331.03	658.17	1,025.12	486,279.86	824,582.19	32.333522	-103.416288
11,650.00	80.21	0.09	11,341.66	707.01	1,025.20	486,328.70	824,581.85	32.333656	-103.416287
11,700.00	85.21	0.09	11,348.00	756.59	1,025.28	486,378.28	824,581.51	32.333793	-103.416287
11,747.85	90.00	0.09	11,350.00	804.39	1,025.36	486,426.08	824,581.18	32.333924	-103.416287
7719' Hold									
11,800.00	90.00	0.09	11,350.00	856.53	1,025.44	486,478.22	824,580.81	32.334067	-103.416287
11,900.00	90.00	0.09	11,350.00	956.53	1,025.60	486,578.22	824,580.12	32.334342	-103.416286
12,000.00	90.00	0.09	11,350.00	1,056.53	1,025.75	486,678.22	824,579.42	32.334617	-103.416286
12,100.00	90.00	0.09	11,350.00	1,156.53	1,025.91	486,778.21	824,578.73	32.334892	-103.416285
12,200.00	90.00	0.09	11,350.00	1,256.53	1,026.07	486,878.21	824,578.03	32.335167	-103.416284
12,300.00	90.00	0.09	11,350.00	1,356.53	1,026.23	486,978.21	824,577.34	32.335442	-103.416284
12,400.00	90.00	0.09	11,350.00	1,456.53	1,026.39	487,078.21	824,576.64	32.335717	-103.416283
12,500.00	90.00	0.09	11,350.00	1,556.53	1,026.54	487,178.20	824,575.95	32.335991	-103.416283
12,600.00	90.00	0.09	11,350.00	1,656.53	1,026.70	487,278.20	824,575.25	32.336266	-103.416282
12,700.00	90.00	0.09	11,350.00	1,756.53	1,026.86	487,378.20	824,574.56	32.336541	-103.416282
12,800.00	90.00	0.09	11,350.00	1,856.53	1,027.02	487,478.20	824,573.86	32.336816	-103.416281
12,900.00	90.00	0.09	11,350.00	1,956.53	1,027.18	487,578.19	824,573.17	32.337091	-103.416281
13,000.00	90.00	0.09	11,350.00	2,056.53	1,027.33	487,678.19	824,572.47	32.337366	-103.416280
13,100.00	90.00	0.09	11,350.00	2,156.53	1,027.49	487,778.19	824,571.78	32.337641	-103.416280
13,200.00	90.00	0.09	11,350.00	2,256.53	1,027.65	487,878.19	824,571.08	32.337916	-103.416279
13,300.00	90.00	0.09	11,350.00	2,356.53	1,027.81	487,978.18	824,570.39	32.338190	-103.416279
13,400.00	90.00	0.09	11,350.00	2,456.53	1,027.97	488,078.18	824,569.69	32.338465	-103.416278
13,500.00	90.00	0.09	11,350.00	2,556.53	1,028.12	488,178.18	824,569.00	32.338740	-103.416278
13,600.00	90.00	0.09	11,350.00	2,656.53	1,028.28	488,278.18	824,568.30	32.339015	-103.416277
13,700.00	90.00	0.09	11,350.00	2,756.53	1,028.44	488,378.17	824,567.61	32.339290	-103.416277
13,800.00	90.00	0.09	11,350.00	2,856.53	1,028.60	488,478.17	824,566.91	32.339565	-103.416276
13,900.00	90.00	0.09	11,350.00	2,956.53	1,028.76	488,578.17	824,566.22	32.339840	-103.416276
14,000.00	90.00	0.09	11,350.00	3,056.53	1,028.91	488,678.17	824,565.52	32.340114	-103.416275
14,100.00	90.00	0.09	11,350.00	3,156.53	1,029.07	488,778.17	824,564.83	32.340389	-103.416275
14,200.00	90.00	0.09	11,350.00	3,256.53	1,029.23	488,878.16	824,564.13	32.340664	-103.416274

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,300.00	90.00	0.09	11,350.00	3,356.53	1,029.39	488,978.16	824,563.44	32.340939	-103.416273
14,400.00	90.00	0.09	11,350.00	3,456.53	1,029.55	489,078.16	824,562.74	32.341214	-103.416273
14,500.00	90.00	0.09	11,350.00	3,556.53	1,029.70	489,178.16	824,562.05	32.341489	-103.416272
14,600.00	90.00	0.09	11,350.00	3,656.53	1,029.86	489,278.15	824,561.35	32.341764	-103.416272
14,700.00	90.00	0.09	11,350.00	3,756.53	1,030.02	489,378.15	824,560.66	32.342038	-103.416271
14,800.00	90.00	0.09	11,350.00	3,856.53	1,030.18	489,478.15	824,559.96	32.342313	-103.416271
14,900.00	90.00	0.09	11,350.00	3,956.53	1,030.34	489,578.15	824,559.27	32.342588	-103.416270
15,000.00	90.00	0.09	11,350.00	4,056.53	1,030.49	489,678.14	824,558.57	32.342863	-103.416270
15,100.00	90.00	0.09	11,350.00	4,156.53	1,030.65	489,778.14	824,557.88	32.343138	-103.416269
15,200.00	90.00	0.09	11,350.00	4,256.53	1,030.81	489,878.14	824,557.18	32.343413	-103.416269
15,300.00	90.00	0.09	11,350.00	4,356.53	1,030.97	489,978.14	824,556.49	32.343688	-103.416268
15,400.00	90.00	0.09	11,350.00	4,456.53	1,031.13	490,078.13	824,555.79	32.343962	-103.416268
15,500.00	90.00	0.09	11,350.00	4,556.53	1,031.28	490,178.13	824,555.10	32.344237	-103.416267
15,600.00	90.00	0.09	11,350.00	4,656.53	1,031.44	490,278.13	824,554.40	32.344512	-103.416267
15,700.00	90.00	0.09	11,350.00	4,756.53	1,031.60	490,378.13	824,553.71	32.344787	-103.416266
15,800.00	90.00	0.09	11,350.00	4,856.53	1,031.76	490,478.12	824,553.01	32.345062	-103.416266
15,900.00	90.00	0.09	11,350.00	4,956.53	1,031.92	490,578.12	824,552.32	32.345337	-103.416265
16,000.00	90.00	0.09	11,350.00	5,056.53	1,032.08	490,678.12	824,551.62	32.345612	-103.416265
16,100.00	90.00	0.09	11,350.00	5,156.53	1,032.23	490,778.12	824,550.93	32.345886	-103.416264
16,200.00	90.00	0.09	11,350.00	5,256.53	1,032.39	490,878.11	824,550.23	32.346161	-103.416264
16,300.00	90.00	0.09	11,350.00	5,356.53	1,032.55	490,978.11	824,549.54	32.346436	-103.416263
16,400.00	90.00	0.09	11,350.00	5,456.53	1,032.71	491,078.11	824,548.84	32.346711	-103.416263
16,500.00	90.00	0.09	11,350.00	5,556.53	1,032.87	491,178.11	824,548.15	32.346986	-103.416262
16,600.00	90.00	0.09	11,350.00	5,656.53	1,033.02	491,278.10	824,547.45	32.347261	-103.416261
16,700.00	90.00	0.09	11,350.00	5,756.53	1,033.18	491,378.10	824,546.76	32.347536	-103.416261
16,800.00	90.00	0.09	11,350.00	5,856.53	1,033.34	491,478.10	824,546.06	32.347810	-103.416260
16,900.00	90.00	0.09	11,350.00	5,956.53	1,033.50	491,578.10	824,545.37	32.348085	-103.416260
17,000.00	90.00	0.09	11,350.00	6,056.53	1,033.66	491,678.10	824,544.67	32.348360	-103.416259
17,100.00	90.00	0.09	11,350.00	6,156.53	1,033.81	491,778.09	824,543.98	32.348635	-103.416259
17,200.00	90.00	0.09	11,350.00	6,256.53	1,033.97	491,878.09	824,543.28	32.348910	-103.416258
17,300.00	90.00	0.09	11,350.00	6,356.53	1,034.13	491,978.09	824,542.59	32.349185	-103.416258
17,400.00	90.00	0.09	11,350.00	6,456.53	1,034.29	492,078.09	824,541.89	32.349460	-103.416257
17,500.00	90.00	0.09	11,350.00	6,556.53	1,034.45	492,178.08	824,541.20	32.349734	-103.416257
17,600.00	90.00	0.09	11,350.00	6,656.53	1,034.60	492,278.08	824,540.50	32.350009	-103.416256
17,700.00	90.00	0.09	11,350.00	6,756.53	1,034.76	492,378.08	824,539.81	32.350284	-103.416256
17,800.00	90.00	0.09	11,350.00	6,856.53	1,034.92	492,478.08	824,539.11	32.350559	-103.416255
17,900.00	90.00	0.09	11,350.00	6,956.53	1,035.08	492,578.07	824,538.42	32.350834	-103.416255
18,000.00	90.00	0.09	11,350.00	7,056.53	1,035.24	492,678.07	824,537.72	32.351109	-103.416254
18,100.00	90.00	0.09	11,350.00	7,156.53	1,035.39	492,778.07	824,537.03	32.351384	-103.416254
18,200.00	90.00	0.09	11,350.00	7,256.53	1,035.55	492,878.07	824,536.33	32.351659	-103.416253
18,300.00	90.00	0.09	11,350.00	7,356.53	1,035.71	492,978.06	824,535.64	32.351933	-103.416253
18,400.00	90.00	0.09	11,350.00	7,456.53	1,035.87	493,078.06	824,534.94	32.352208	-103.416252
18,500.00	90.00	0.09	11,350.00	7,556.53	1,036.03	493,178.06	824,534.25	32.352483	-103.416252
18,600.00	90.00	0.09	11,350.00	7,656.53	1,036.18	493,278.06	824,533.55	32.352758	-103.416251
18,700.00	90.00	0.09	11,350.00	7,756.53	1,036.34	493,378.05	824,532.86	32.353033	-103.416250
18,800.00	90.00	0.09	11,350.00	7,856.53	1,036.50	493,478.05	824,532.16	32.353308	-103.416250
18,900.00	90.00	0.09	11,350.00	7,956.53	1,036.66	493,578.05	824,531.47	32.353583	-103.416249
19,000.00	90.00	0.09	11,350.00	8,056.53	1,036.82	493,678.05	824,530.77	32.353857	-103.416249
19,100.00	90.00	0.09	11,350.00	8,156.52	1,036.97	493,778.04	824,530.08	32.354132	-103.416248
19,200.00	90.00	0.09	11,350.00	8,256.52	1,037.13	493,878.04	824,529.38	32.354407	-103.416248
19,300.00	90.00	0.09	11,350.00	8,356.52	1,037.29	493,978.04	824,528.69	32.354682	-103.416247
19,400.00	90.00	0.09	11,350.00	8,456.52	1,037.45	494,078.04	824,527.99	32.354957	-103.416247
19,466.88	90.00	0.09	11,350.00	8,523.40	1,037.55	494,144.91	824,527.53	32.355141	-103.416246

TD at 19466.88

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well 601H
Company:	Centennial Resource Development, Inc.	TVD Reference:	KB=25' @ 3390.10usft (H&P 650)
Project:	Lea Co., NM (NAD83)	MD Reference:	KB=25' @ 3390.10usft (H&P 650)
Site:	Donkey Kong 1 Fed Com	North Reference:	True
Well:	601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
DK 601H FTP	0.00	0.00	11,350.00	804.39	1,025.35	486,426.08	824,581.17	32.333924	-103.416287
- plan misses target center by 0.01usft at 11747.86usft MD (11350.00 TVD, 804.39 N, 1025.36 E)									
- Point									
DK 601H PBHL	0.00	0.00	11,350.00	8,523.40	1,037.55	494,144.91	824,527.53	32.355141	-103.416246
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
2,000.00	2,000.00	0.00	0.00	Build 1°/100'
2,799.68	2,797.09	12.28	54.35	6748' Hold
9,548.17	9,479.95	219.15	970.10	Drop 1°/100'
10,347.85	10,277.04	231.43	1,024.45	500' Hold
10,847.85	10,777.04	231.43	1,024.45	Build 10°/100'
11,747.85	11,350.00	804.39	1,025.36	7719' Hold
19,466.88	11,350.00	8,523.40	1,037.55	TD at 19466.88