

# RECEIVED

OCD Hobbs

ATS-11-60

Form 3160-3  
(February 2005)

FEB 29 2011

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

5. Lease Serial No.  
**USA NMNM 94118**

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
**Devon Energy Production Co., LP**

3a. Address **20 North Broadway  
OKC, OK 73102**

3b. Phone No. (include area code)  
**(405)-228-8973**

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

8. Lease Name and Well No.  
**Rattlesnake Federal Unit**

9. API Well No.

**24-30-025-40068**  
**9666**

10. Field and Pool, or Exploratory  
**SE Lea County, Leonard/Bone Spr**

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

At surface **SESE 330' FSL & 330' FEL Unit P**  
At proposed prod. zone **NENE 330' FNL & 330' FEL Unit A**

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

**Sec 15 T26S R34E**

14. Distance in miles and direction from nearest town or post office\*  
**Approximately 15 miles southwest of Jal, NM.**

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)

**330'**

16. No. of acres in lease

**1,760 ac**

17. Spacing Unit dedicated to this well

**160 acres**

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft.

**See attached map**

19. Proposed Depth

**TVD 9,654' MD 14,066'**

20. BLM/BIA Bond No. on file

**CO-1104**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**3229' GL**

22. Approximate date work will start\*  
**07/01/2011**

23. Estimated duration  
**45 days**

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature

*Spence Laird*

Name (Printed/Typed)

**Spence Laird**

Date

**10/26/2010**

Title

**Regulatory Analyst**

Approved by (Signature)

**/s/ James Stovall**

Name (Printed/Typed)

Date

**FEB 18 2011**

Title

**FIELD MANAGER**

Office

**CARLSBAD FIELD OFFICE**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**APPROVAL FOR TWO YEARS**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

*Kz 02/29/11*

Carlsbad Controlled Water Basin

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS  
AND SPECIAL STIPULATIONS  
ATTACHED

1625 N. French Dr., Hobbs, NM 88240

1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico

Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr. FEB 23 2011  
Santa Fe, NM 87505. 1000000000

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

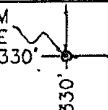
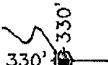
☐ AMENDED REPORT

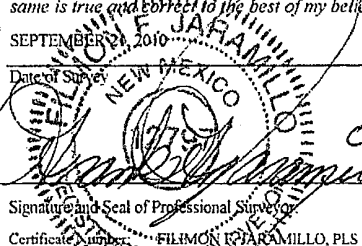
**HOBBSOCD**

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-40068		<sup>2</sup> Pool Code 96661		<sup>3</sup> Well Location and Acreage Description Hardin Tank LEONARD (BONE SPRING)					
<sup>4</sup> Property Code 34380		<sup>5</sup> Property Name RATTLESNAKE FED. UNIT						<sup>6</sup> Well Number 9H	
<sup>7</sup> OGRID No. 6137		<sup>8</sup> Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.						<sup>9</sup> Elevation 3229.8	
<sup>10</sup> Surface Location									
UL or lot no. P	Section 15	Township 26 S	Range 34 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 330	East/West line EAST	County LEA
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. A	Section 15	Township 26 S	Range 34 E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 330	East/West line EAST	County LEA
<sup>12</sup> Dedicated Acres 160		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

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

NW CORNER SEC. 15 LAT. = 32°03'02.61"N LONG. = 103°27'58.72"W  NMSP EAST (FT) N = 383200.10 E = 809991.02	BOTTOM OF HOLE LAT. = 32°02'59.30"N LONG. = 103°27'01.18"W NMSP EAST (FT) N = 382905.25 E = 814947.22	BOTTOM OF HOLE 	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
	NE CORNER SEC. 15 LAT. = 32°03'02.55"N LONG. = 103°26'57.35"W  NMSP EAST (FT) N = 383236.99 E = 815274.40		<b>18 SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. SEPTEMBER 21, 2010 Date of Survey
SW CORNER SEC. 15 LAT. = 32°02'10.35"N LONG. = 103°27'58.68"W  NMSP EAST (FT) N = 377917.68 E = 810037.16	RATTLESNAKE FED. UNIT #9H ELEV. = 3229.8' LAT. = 32°02'13.57"N (NAD83) LONG. = 103°27'01.17"W NMSP EAST (FT) N = 378283.26 E = 814985.90	NE CORNER SEC. 15 LAT. = 32°02'10.30"N LONG. = 103°26'57.34"W  NMSP EAST (FT) N = 377955.49 E = 815318.66	SURFACE LOCATION 



Signature and Seal of Professional Surveyor  
 Certificate Number: FILMON R. JARAMILLO, PLS 12797  
 SURVEY NO. 246

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**HOBBSOCD****DRILLING PROGRAM**

Devon Energy Production Company, LP

**Rattlesnake Federal Unit #9H**

Surface Location: 330' FSL &amp; 330' FEL, Unit P, Sec 15 T26S R34E, Lea, NM

Bottom hole Location: 330' FNL &amp; 330' FEL, Unit A, Sec 15 T26S R34E, Lea, NM

**1. Geologic Name of Surface Formation**

- a. Quaternary

**2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:**

a. Rustler	903'	Water	
b. Salado Salt	1250'	Water	
c. Bell Canyon	5241'	Oil	
d. Cherry Canyon	6292'	Oil	
e. Brushy Canyon	8307'	Oil	
f. Bone Spring	9370'	Oil	Entry Point: 9378'
g. Leonard (Bone Spring)	9420'	Oil	
h. Pilot Hole	10,120'		

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 950' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 5300' and circulating cement to surface. The Bone Spring intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

**3. Casing Program:**

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
17 1/2"	0'-950'	13 3/8"	0'-950'	48#	STC	H-40
12 1/4"	950'-5300'	9 5/8"	0'-5300'	43.5#	LTC	N-80
8 3/4"	5300' -10,120'	PH				
8 3/4"	5300' - 14,100'	5 1/2"	0'-9200'	17#	LTC	HCP-110
			9,200'-14,100'	17#	BTC	HCP-110

**Design Parameter Factors:**

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13 3/8"	1.6	3.6	6.7
9 5/8"	1.4	2.3	4.7
5 1/2"	1.3	1.7	2.3

#### 4. Cement Program:

##### All Cement Volumes exceed 25% excess

Plug Back Volume: cement plug from 10,120'-9,100' with 670 sacks class H with a .9 cuft/sack yield

13 3/8" Surface     **Lead:** 546 sacks Premium Plus C Cement + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 5% bwow Sodium Chloride + 0.8% bwoc Sodium Metasilicate + 5% bwoc MPA-5 + 101.1% Fresh Water  
**Yield:** 1.75 cf/sack. TOC @ surface.

**Tail:** 300 sacks Premium Plus C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water  
**Yield:** 1.35 cf/sack.

9 5/8" Intermediate **Lead:** 1316 sacks (35:65) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water  
**Yield:** 2.04 cf/sack. TOC @ surface.

**Tail:** 300 sacks (60:40) Poz (Fly Ash):Premium Plus C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water  
**Yield:** 1.37 cf/sack.

5 1/2" Production     **1<sup>st</sup> Stage**

**Lead:** 7545 sacks (35:65) Poz + 0.2% bwoc Sodium Metasilicate + 1.4% bwoc FL-62 + 0.4% bwoc  
**Yield:** 2.01 cf/sack.

##### **Tail**

**Lead:** 1352 sacks (50:50) Poz (Fly Ash):Premium Plus C Cement + 1% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 0.4% bwoc FL-52A + 0.4% bwoc R-3 + 103.1% Fresh Water  
**Yield:** 1.28 cf/sack.

**DV TOOL at ~6000'**

##### **2<sup>nd</sup> Stage**

**Lead:** 120 sacks (35:65) Poz (Fly Ash):Class H Cement + 0.125 lbs/sack Cello Flake + 3 6% bwoc Bentonite + 0.4% bwoc FL-52A + 99.3% Fresh Water  
**Yield:** 2.04 cf/sk

**Tail:** 100 sacks (60:40) Poz (Fly Ash): Class H Cement + 1% bwow Sodium Chloride + 0.15% bwoc + 63.2% Fresh Water  
**Yield:** 1.37 cf/sk

TOC for All Strings:

Surface: 0'  
1<sup>st</sup> Intermediate: 0'  
Production: 4800'

*See* The above cement volumes could be revised pending the caliper measurement from the open hole logs.  
*COA* Actual cement volumes will be adjusted based on fluid caliper and caliper log data.

**5. Pressure Control Equipment:**

BOP DESIGN: The 13 3/8" casing will have a 3,000# (Hydril) annular preventer which will be tested to 2000#. The blow out prevention system will consist of a bag type (hydril) preventer, a double ram preventer stack, and a rotating head. Both the hydril and ram stack will be hydraulically operated. Both BOP systems will be rated at 5000 psi. As shown in the attachment, the Surface Casing BOP will be a 3000 psi Hydril annular. It will be tested as a 2000 psi Hydril annular. Prior to drilling out the 9 5/8" intermediate shoe, the ram stack will be nipped up with 4.5" pipe rams installed and will be used in the BOP. **The hydril will be tested to 1000psi (high) and 250psi (low). Tests on the 5000psi BOP will be conducted per the BLM Drilling Operations Order #2.**

The ram system will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and hydril, other BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5000 psi WP.

**6. Proposed Mud Circulation System**

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 950'	8.4-9.0	32-34	NC	Fresh Water/Gel
950' - 5300'	10.0	28-30	NC	Brine
5300' - 14,100'	8.8-9.3	28-40	NC	Fresh Water/Brine

The necessary mud products for weight addition and fluid loss control will be on location at all times.

**7. Auxiliary Well Control and Monitoring Equipment:**

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

**8. Logging, Coring, and Testing Program:** *See COA*

- Drill stem tests will be based on geological sample shows.
- If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- The open hole electrical logging program will be:
  - Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper.
  - Total Depth to Surface Compensated Neutron with Gamma Ray

- iii. No coring program is planned
- iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

**9. Potential Hazards:**

- a. No abnormal pressures or temperatures are expected. There is no known presence of H<sub>2</sub>S in this area; therefore, no H<sub>2</sub>S is anticipated to be encountered. If H<sub>2</sub>S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4600 psi and Estimated BHT 135°.

**10. Anticipated Starting Date and Duration of Operations:**

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



Project: Lea Co., New Mexico (Nad 83)  
Site: Rattlesnake Fed Unit #9H  
Well: Rattlesnake Fed Unit #9H  
Wellbore: Lateral #1  
Design: Design #1



SECTION DETAILS										
Sec	MD	Inc	At	TVD	+N-S	+E-W	DLag	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	9117.04	0.00	0.00	9117.04	0.00	0.00	0.00	0.00	0.00	
3	10022.04	90.50	359.52	9689.97	577.94	-4.84	10.00	359.52	577.96	
4	14066.39	90.50	359.52	9654.68	4622.00	-38.68	0.00	0.00	4622.16	PBHL - TD (RFU#9H)

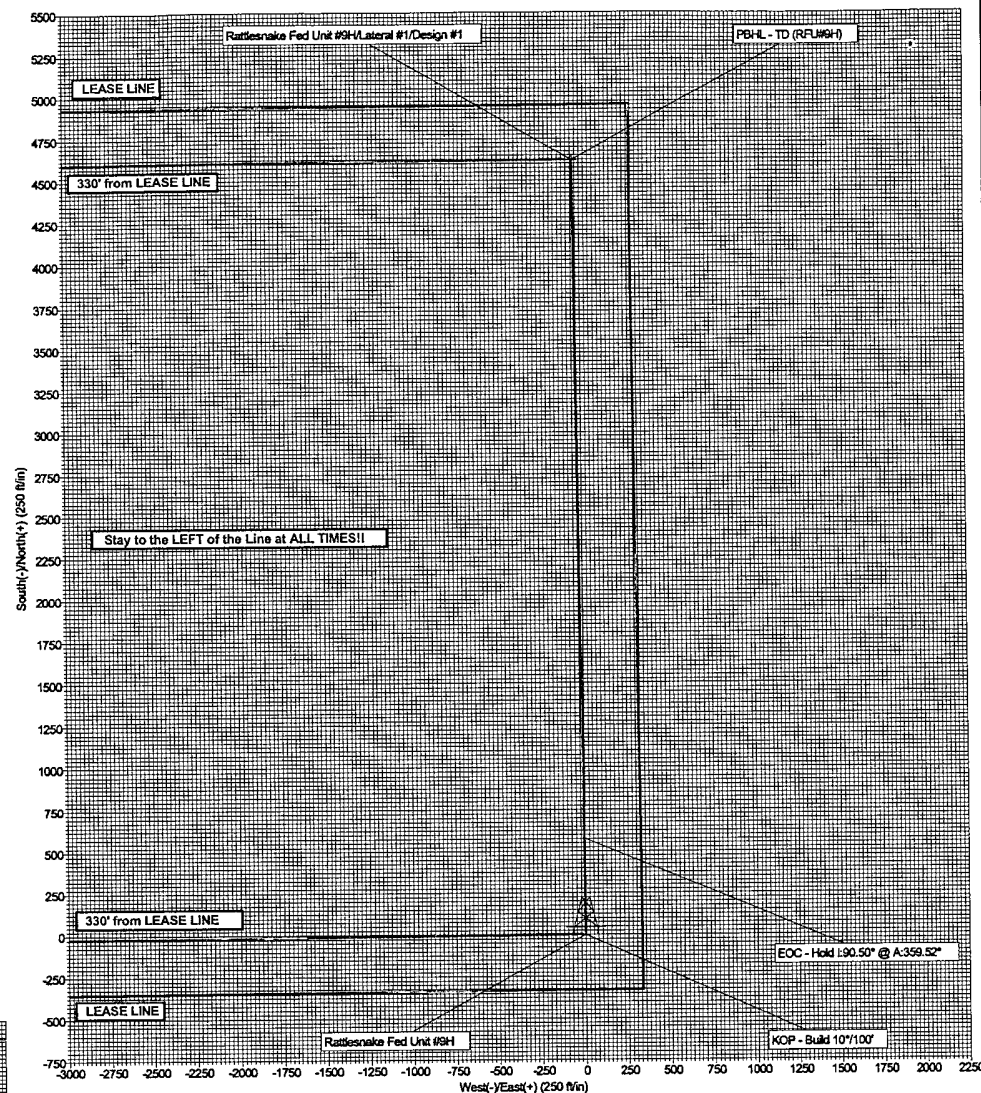
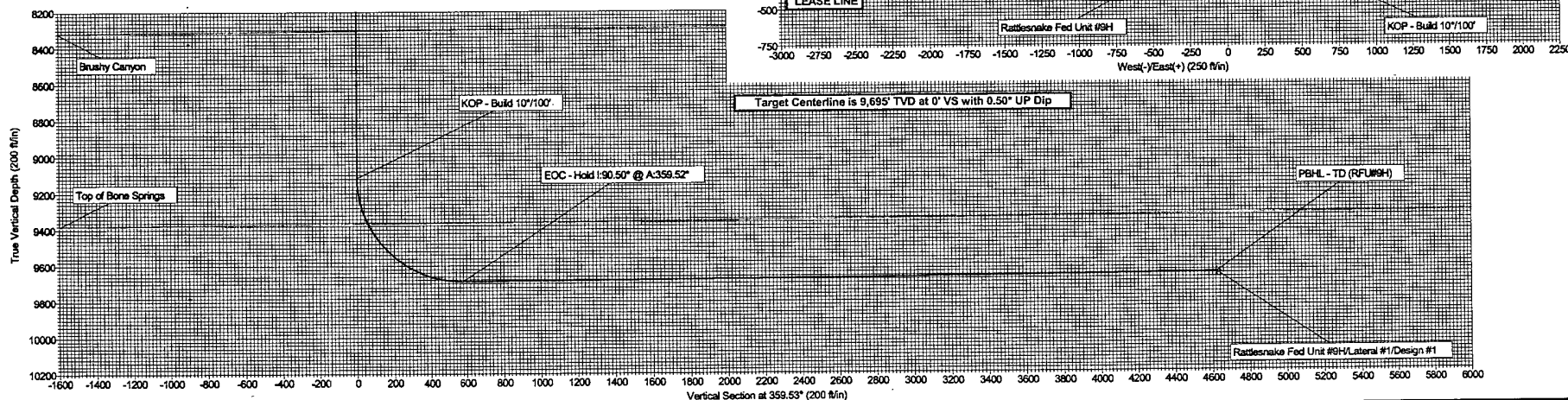
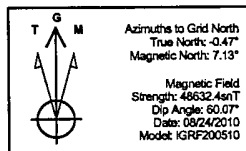
ANNOTATIONS		
TVD	MD	Annotation
9117.04	9117.04	KOP - Build 10°/100'
9689.97	10022.04	EOC - Hold 190.50° @ A:359.52°

PROJECT DETAILS: Lea Co., New Mexico (Nad 83)	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Eastern Zone
System Datum:	Mean Sea Level

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)								
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape Point
PBHL - TD (RFU#9H)	9654.68	4622.00	-38.68	382905.25	814947.22	32° 2' 58.597 N	103° 27' 0.817 W	

WELL DETAILS: Rattlesnake Fed Unit #9H					
Ground Level: 3215.00					
WELL @ 3240.00ft (Original Well Elev)					
+N-S	+E-W	Northing	Easting	Latitude	Slot
0.00	0.00	378283.26	814985.90	32° 2' 12.859 N	103° 27' 0.807 W

Plan: Design #1 (Rattlesnake Fed Unit #9H/Lateral #1)	
Created By: Mike Starkay	Date: 16:10, October 25 2010
Checked: _____	Date: _____
Reviewed: _____	Date: _____
Approved: _____	Date: _____





## **Devon Energy**

**Lea Co., New Mexico (Nad 83)**

**Rattlesnake Fed Unit #9H**

**Rattlesnake Fed Unit #9H**

**Lateral #1**

**Plan: Design #1**

## **Standard Survey Report**

**25 October, 2010**

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**FEB 23 2011  
HOBBSOCD**





<b>Company:</b>	Devon Energy	<b>Local Co-ordinate Reference:</b>	Site Rattlesnake Fed Unit #9H
<b>Project:</b>	Lea Co., New Mexico (Nad 83)	<b>TVD Reference:</b>	WELL @ 3240.00ft (Original Well Elev)
<b>Site:</b>	Rattlesnake Fed Unit #9H	<b>MD Reference:</b>	WELL @ 3240.00ft (Original Well Elev)
<b>Well:</b>	Rattlesnake Fed Unit #9H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Lateral #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #1	<b>Database:</b>	EDM 2003.21 Single User Db

Project	Lea Co., New Mexico (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Rattlesnake Fed Unit #9H, Sec 15, T-26S, R-34E				
Site Position:		Northing:	378,283.26 ft	Latitude:	32° 2' 12.859 N
From:	Map	Easting:	814,985.90 ft	Longitude:	103° 27' 0.807 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.47 °

Well	Rattlesnake Fed Unit #9H					
Well Position	+N/-S	0.00 ft	Northing:	378,283.26 ft	Latitude:	32° 2' 12.859 N
	+E/-W	0.00 ft	Easting:	814,985.90 ft	Longitude:	103° 27' 0.807 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	3,240.00 ft	Ground Level:	3,215.00 ft

Wellbore	Lateral #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	08/24/10	7.60	60.07	48,632

Design		Design #1		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	359.53

Survey Tool Program		Date	10/25/10		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	9,000.00	Design #1 (Lateral #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
9,000.00	14,066.39	Design #1 (Lateral #1)	CUDD MWD	MWD - Standard CUDD MWD	

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,251.00	0.00	0.00	5,251.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
6,292.00	0.00	0.00	6,292.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
8,307.00	0.00	0.00	8,307.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
9,117.04	0.00	0.00	9,117.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 10°/100'									
9,378.47	26.14	359.52	9,369.49	58.61	-0.49	58.61	10.00	10.00	0.00
Top of Bone Springs									



CUDD Drilling & Measurement Services  
Survey Report



Company:	Devon Energy	Local Co-ordinate Reference:	Site Rattlesnake Fed Unit #9H
Project:	Lea Co., New Mexico (Nad 83)	TVD Reference:	WELL @ 3240.00ft (Original Well Elev)
Site:	Rattlesnake Fed Unit #9H	MD Reference:	WELL @ 3240.00ft (Original Well Elev)
Well:	Rattlesnake Fed Unit #9H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 2003.21 Single User Db

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,022.04	90.50	359.52	9,689.97	577.94	-4.84	577.96	10.00	10.00	0.00
EOC - Hold 1:90.50* @ A:359.52*									
14,066.39	90.50	359.52	9,654.68	4,622.00	-38.68	4,622.16	0.00	0.00	0.00
PBHL - TD (RFU#9H)									

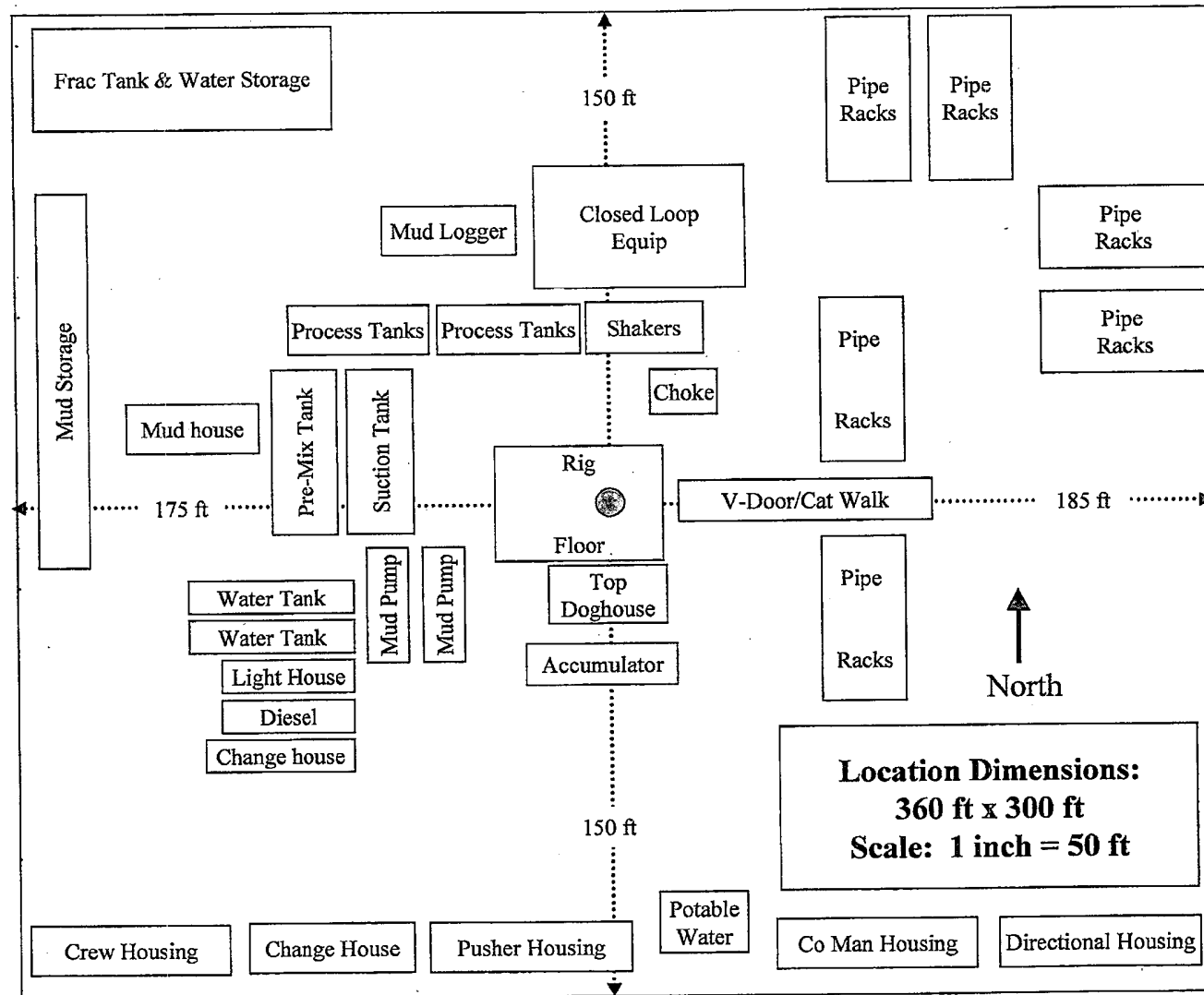
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - TD (RFU#9H)	0.00	359.52	9,654.68	4,622.00	-38.68	382,905.25	814,947.22	32° 2' 58.597 N	103° 27' 0.817 W
- plan hits target center									
- Point									

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,251.00	5,251.00	Bell Canyon		-0.50	
6,292.00	6,292.00	Cherry Canyon		-0.50	
8,307.00	8,307.00	Brushy Canyon		-0.50	
9,378.47	9,370.00	Top of Bone Springs		-0.50	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
9,117.04	9,117.04	0.00	0.00	KOP - Build 10°/100'	
10,022.04	9,689.97	577.94	-4.84	EOC - Hold 1:90.50* @ A:359.52*	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# Conventional Rig Location Layout





devon

## Proposed Interim Site Reclamation

Devon Energy Production Co.

Rattlesnake Fed Unit 9H

330' FSL & 330' FEL

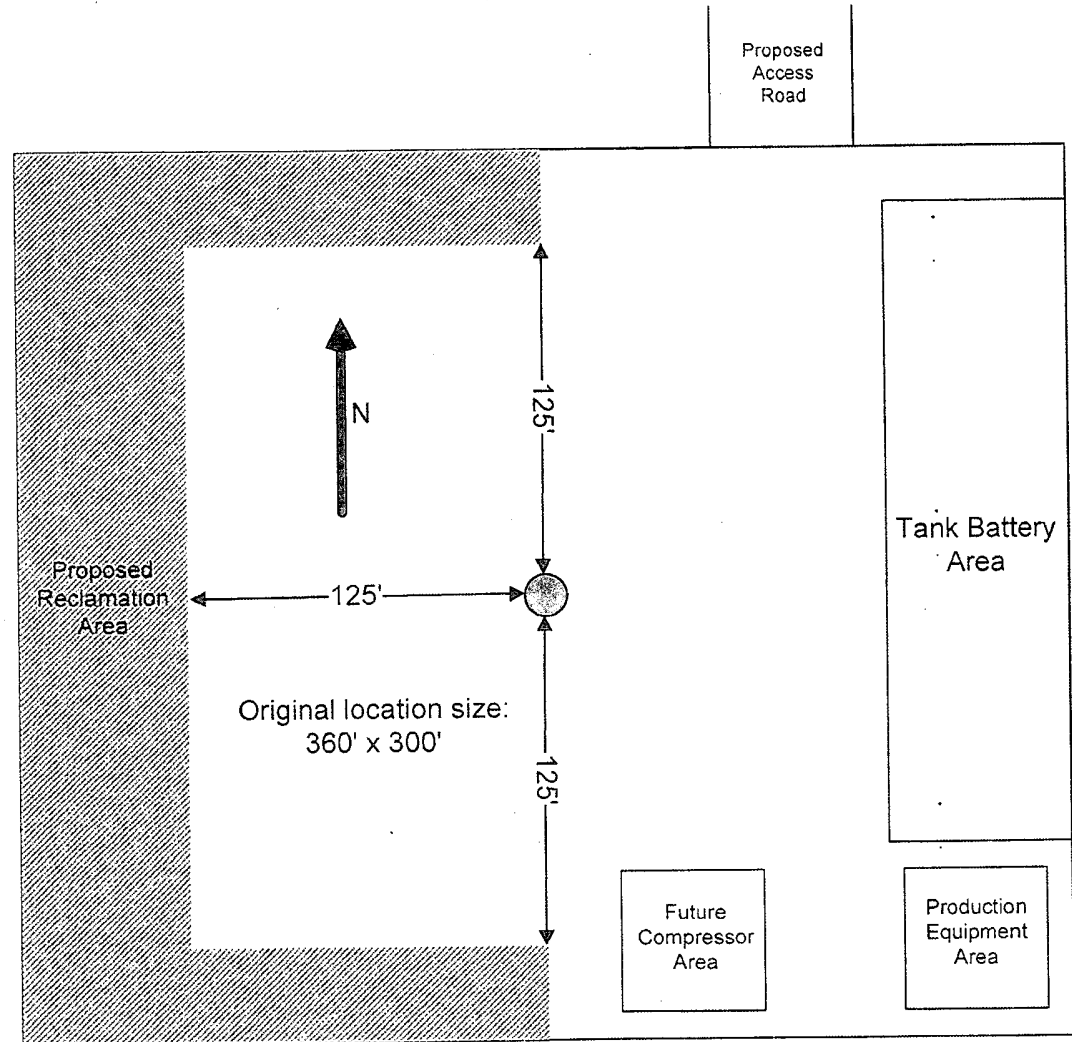
Sec. 15 - T26S - R34E

Lea County, NM

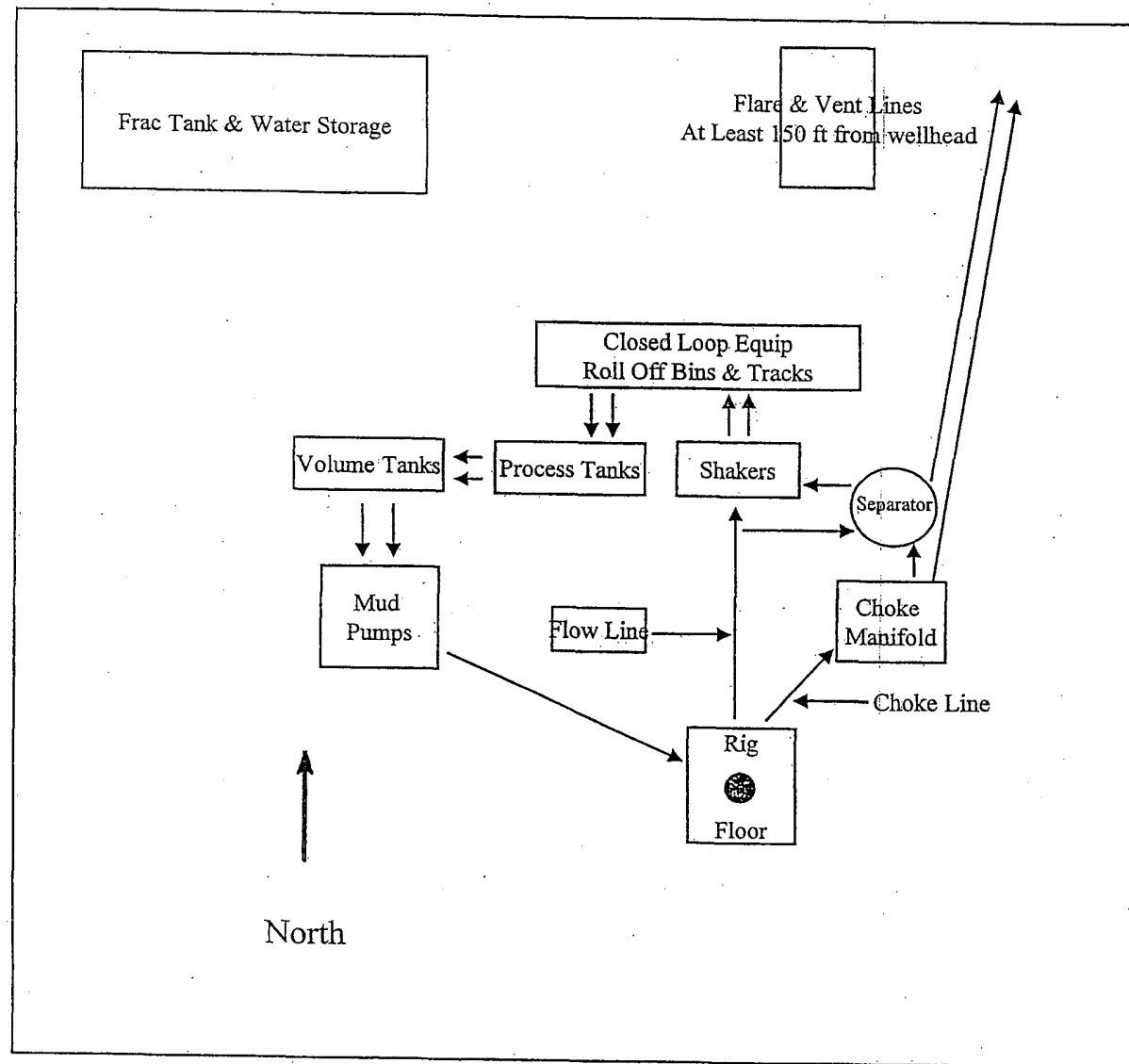
Proposed  
Reclamation Area



1" : 60'



# Closed Loop Equipment Diagram

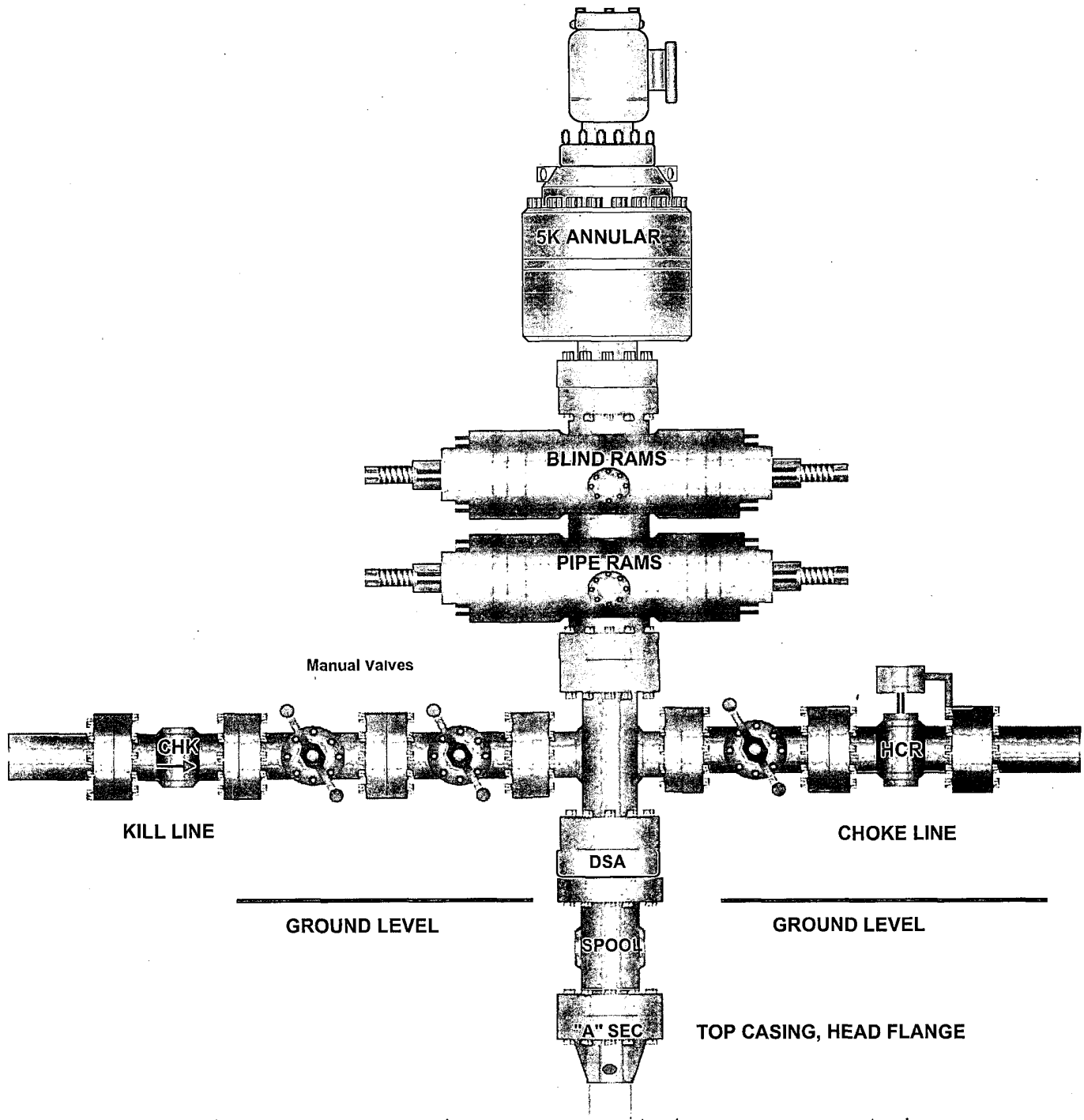


Attachment to Exhibit #1  
NOTES REGARDING BLOWOUT PREVENTERS  
Devon Energy Production Company, LP  
**Rattlesnake Federal Unit #9H**

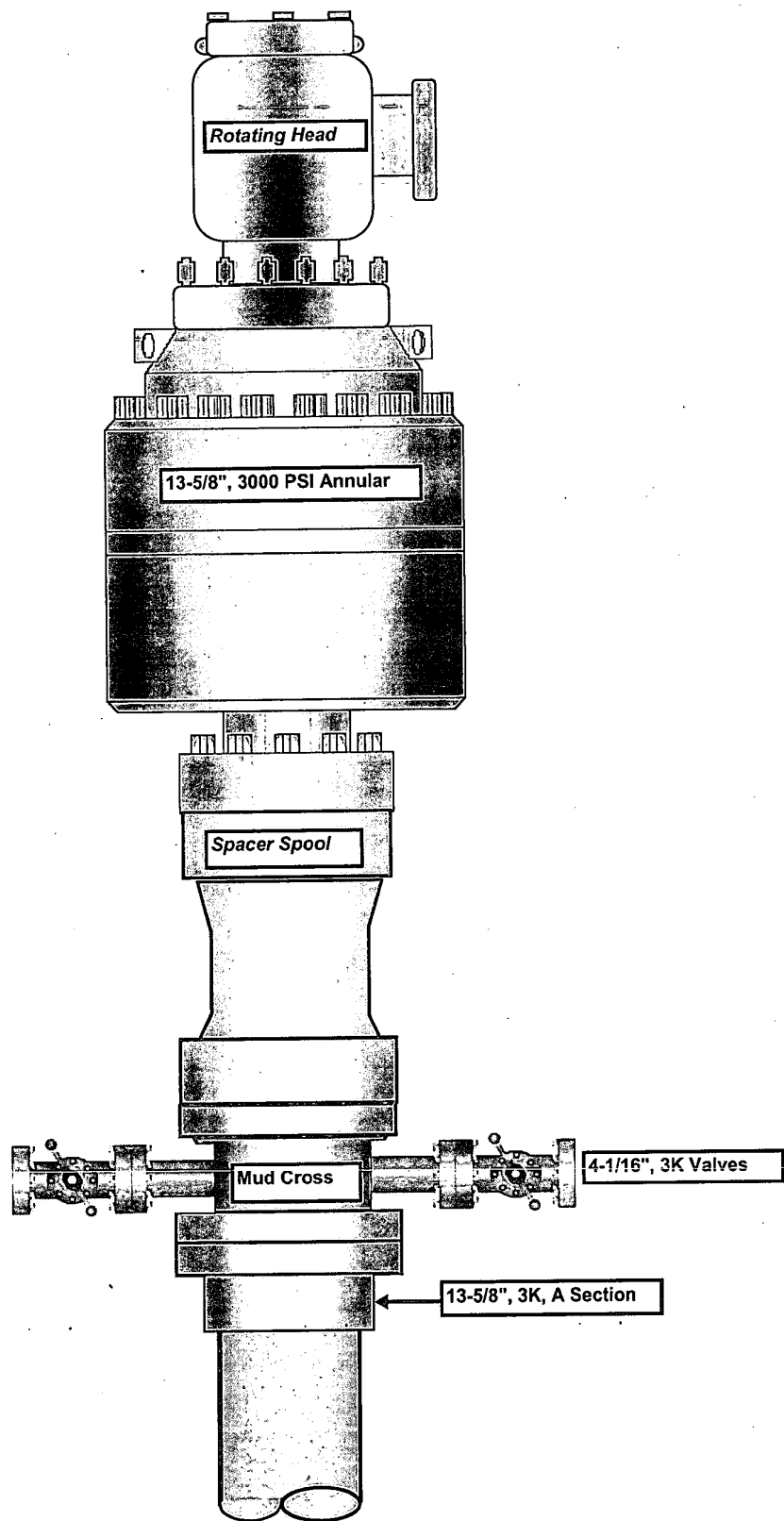
Surface Location: 330' FSL & 330' FEL, Unit P, Sec 15 T26S R34E, Lea, NM  
Bottom hole Location: 330' FNL & 330' FEL, Unit A, Sec 15 T26S R34E, Lea, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 5000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 5000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

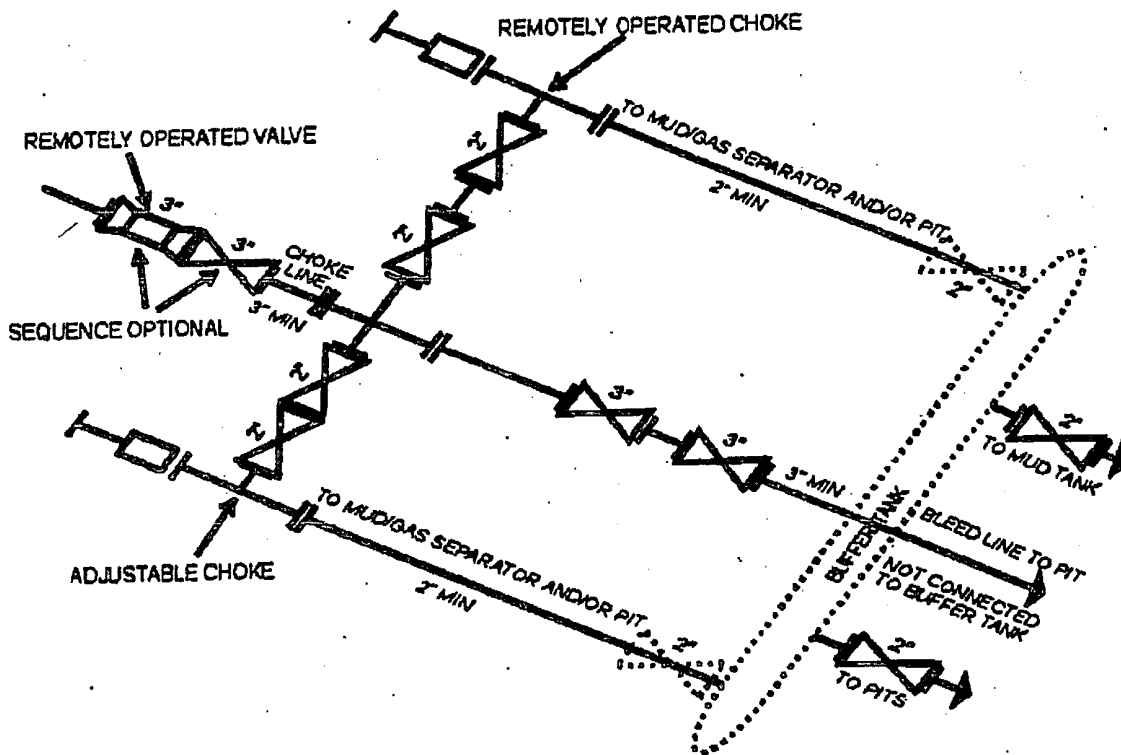
# 11" x 5,000 psi BOP Stack



13-5/8" 3K Annular







#### 5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, OR 15M drawings, it would also be applicable to those situations.

[54 FR 39528, Sept. 27, 1989]

Per BLM: Operator must supply an accurate choke manifold diagram and not the general example from Onshore Order #2.