

Split Estate

OCD Artesia

ATS-11-156

Form 3160-3
(February 2005)

R-111-POTASH

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

EA-260

5. Lease Serial No.
USA NMNM 0405444A & 0405444

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

Aldabra 26 Federal

9. API Well No.

10. Field and Pool, or Exploratory
Ingle Wells; Avaton Shale

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

Sec 26 T23S R31E

12. County or Parish

Eddy

13. State

NM

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

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

At surface SWSE 330' FSL & 1520' FEL (Unit O) Sec 26 T23S R31E

At proposed prod. zone NWSE 2600' FSL & 2310' FEL Unit J Sec 23 T23S R31E

14. Distance in miles and direction from nearest town or post office*
Approximately 18 miles east of Loving, 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
1240 ac & 1320 ac

17. Spacing Unit dedicated to this well
240 acres

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

19. Proposed Depth
TVD 3990' MD 16,893'

20. BLM/BIA Bond No. on file
CO-1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3464' GL

22. Approximate date work will start*
05/10/2011

23. Estimated duration
45 days

24. Attachments Wellpad also contains: Aldabra 26 Fed 6H & 7H

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

12/02/2010

Title

Regulatory Analyst

Approved by (Signature)

/s/ Jesse J. Juen

Name (Printed/Typed)

/s/ Jesse J. Juen

Date

MAR 11 2011

Title

STATE DIRECTOR

Office

NM STATE 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)

RECEIVED

MAR 22 2011

NM OCD ARTESIA

KZ 03/31/11

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

OCD CONDITION OF APPROVAL for Drilling:
Intent to drill ONLY -- CANNOT produce until the Non-Standard
Location has been approved by OCD Santa Fe office.

DRILLING PROGRAM

Devon Energy Production Company, LP

Aldabra 26 Federal 5H

Surface Location: 330' FSL & 1520' FEL, Unit O, Sec 26 T23S R31E, Eddy, NM

Bottom hole Location: 2600' FSL & 2310' FEL, Unit J, Sec 23 T23S R31E, Eddy, NM

1. Geologic Name of Surface Formation

a. Quaternary

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

a. Fresh Water	180'	Water
b. Rustler	780'	Barren
c. Salado Salt	1043'	Barren
d. Base of Salt	4147'	Barren
e. Lamar	4381'	Oil
f. Bell Canyon	4416'	Oil
g. Cherry Canyon	5317'	Oil
h. Brushy Canyon	6562'	Oil
i. Avalon/Top of Bone Spring	8196'	Oil/Gas
j. Primary Target Landing Zone	8990'	Oil/Gas

Producing formation Penetration Point: 336' FSL & 1527' FEL of Sec 26-23S-31E

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 825' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 4375' and circulating cement to surface. The pay 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 - 825	13-3/8"	0 - 825	48#	STC	H-40
12-1/4"	825 - 4,375	9-5/8"	0 - 4,375	40#	LTC	J-55
8-3/4"	4,375 - 7,500	5-1/2"	0 - 7,500	20#	LTC	HCP-110
8-3/4"	7,500 - 16,893	5-1/2"	7,500 - 16,893	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"	1.99	4.48	8.13
9-5/8" 40# J-55 LTC	1.13	1.74	2.97
5-1/2" 20# HCP-110 LTC	2.13	3.03	1.55
5-1/2" 17# HCP-110 BTC	1.77	2.53	3.42

4. Cement Program: ** See COA - WAIT on Cement time*

13-3/8" Surface

Lead: 500 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg

Yield: 1.75 cf/sk

TOC @ surface

Tail: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg

Yield: 1.35 cf/sk

9-5/8" Intermediate

Lead: 1,200 sacks (35:65) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg

Yield: 2.04 cf/sk

TOC @ surface

Tail: 300 sacks (60:40) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 ppg

Yield: 1.37 cf/sk

5-1/2" Production

1st Stage

Lead: 560 sacks (35:65) Poz (Fly Ash): Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg

Yield: 2.01 cf/sk

Tail: 2,200 sacks (50:50) Poz (Fly Ash): Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg

Yield: 1.28 cf/sk

DV TOOL at 6,000 ft

2nd Stage

Lead: 325 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg

Yield: 2.88 cf/sk

Tail: 100 sacks (60:40) Poz (Fly Ash): Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg

Yield: 1.37 cf/sk

See COA
~~DV TOOL at 3,800 ft~~

3rd Stage

Lead: 375 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg

see
COA

Yield: 2.91 cf/sk

TOC @ surface

Tail: 100 sacks (60:40) Poz (Fly Ash): Class C Cement + 1% bwoc Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg

Yield: 1.37cf/sk

TOC for All Strings:

Surface: 0
Intermediate: 0
Production: 0

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA

5. **Pressure Control Equipment:**

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the surface casing shoe. Tripe

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the intermediate casing shoe. Tripe

The pipe rams 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 annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP. Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns (please see attached manufacturers product statement).

6. **Proposed Mud Circulation System**

see
COA

Depth	Mud Wt.	Visc.	Fluid Loss	Type System
0 - 825	8.4 - 9.0	30 - 34	N/C	FW
825 - 4,375	9.8 - 10.0	28 - 32	N/C	Brine
4,375 - 16,893	8.6 - 9.0	28 - 32	N/C	FW

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
- a. Drill stem tests will be based on geological sample shows.
 - b. 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.
 - c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper.
 - ii. 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 1/2" 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 H2S in this area; therefore, no H2S is anticipated to be encountered. If H2S 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 4200 psi and Estimated BHT 140°.

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.

See
COA

Depending on rig availability, Devon may set the surface casing using an Ashton Oilfield Services rig. The rig plat is attached. This rig will be used only to set the surface casing and will leave the location once the surface casing has been run and cemented. Another rig will drill the remainder of the wellbore. The reasons for using the smaller rig to set surface are: rig availability and economics.

* The BLM will be contacted 24 hours prior to commencing drilling operations. The surface casing will be run and cemented back to surface as per the approved APD. The well will be secured with a cap welded onto the surface casing. Another rig will be on location to drill the remainder of the wellbore within 60 days after the Ashton rig has left the location.



Project: Eddy County
Site: Aldabra "26" Fed
Well: #5H
Wellbore: OH
Plan: Design #1 (#5H/OH)

PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.41°

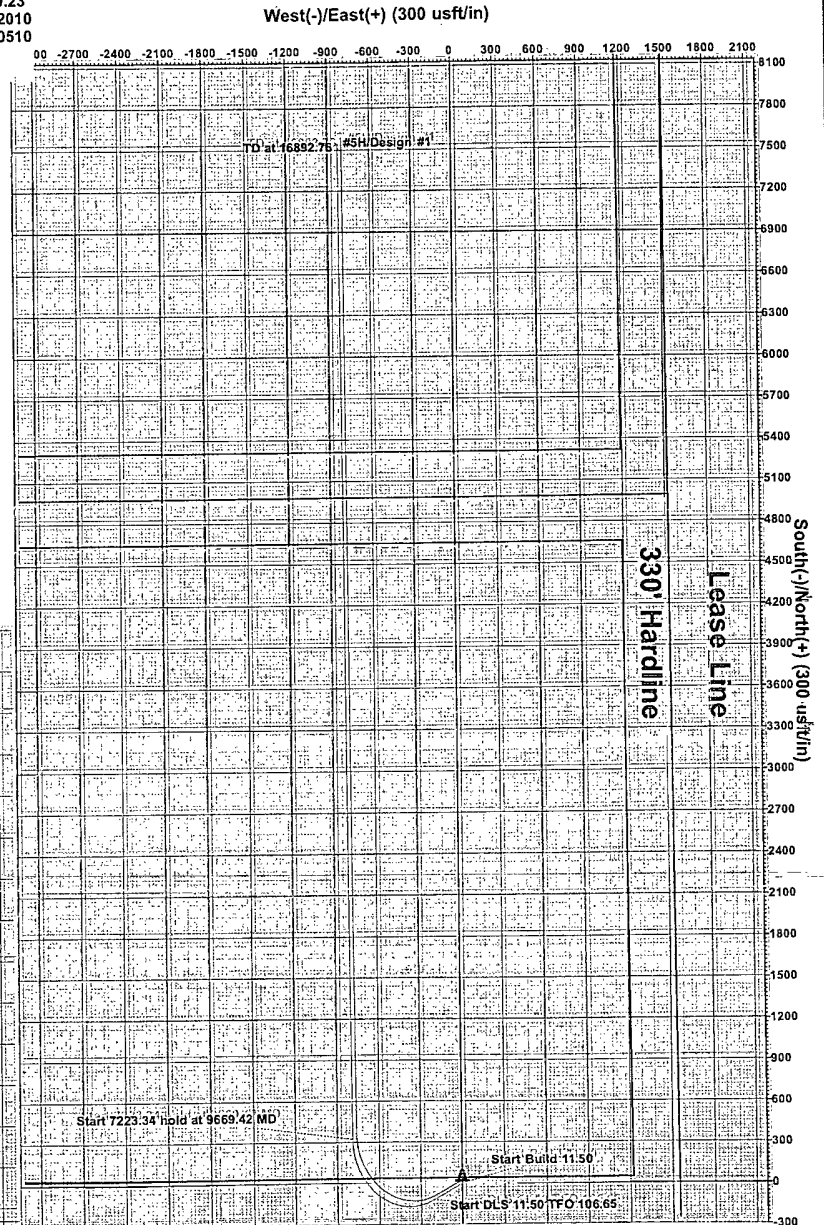
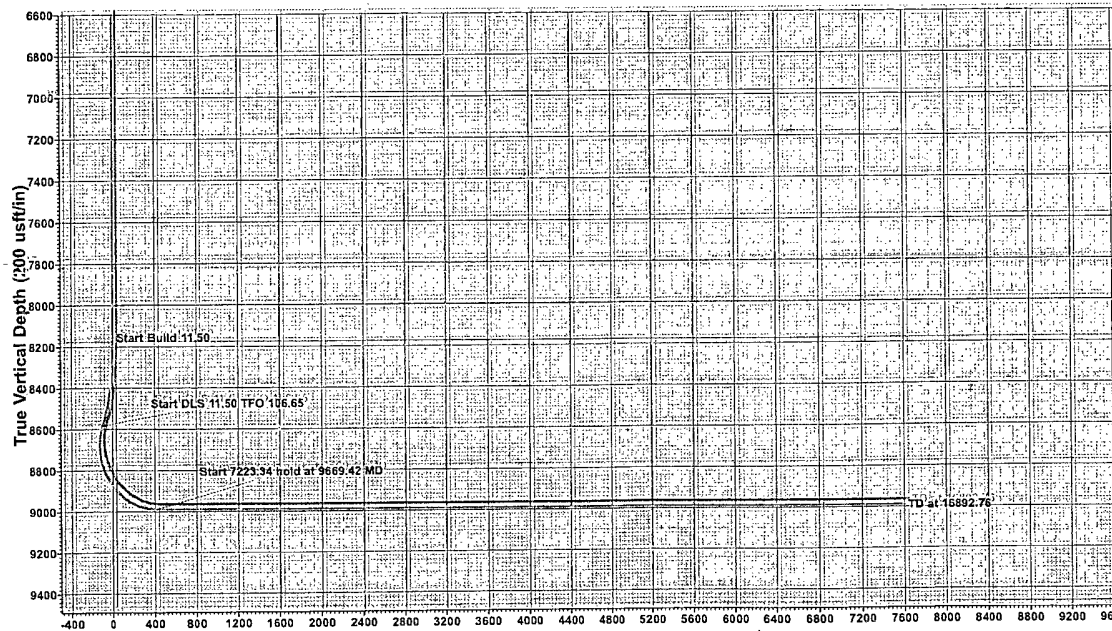
Magnetic Field
Strength: 48714.4snT
Dip Angle: 60.23°
Date: 11/23/2010
Model: IGRF200510

PATHFINDER
A Schlumberger Company

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	28156.00	0.00	0.00	8156.00	0.00	0.00	0.00	0.00	0.00	0.00	
	38666.88	58.74	239.74	8581.97	-120.79	-207.07	11.50	239.74	-97.46		
	49669.42	90.00	359.70	8990.00	326.81	-791.73	11.50	106.65	411.30	Heal TGT(ALD26#5)	
	56892.76	90.00	359.70	8990.00	7550.05	-829.30	0.00	0.00	7595.46	PBHL(ALD26#5)	

WELL DETAILS: #5H						
Ground Elevation:: 3463.70						
RKB Elevation: WELL @ 3469.70usft (H&P #416)						
Rig Name: H&P #416						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	462125.930	723192.030	32° 16' 8.718 N	103° 44' 41.866 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Heal TGT(ALD26#5)	8990.00	326.81	-791.73	462452.740	722400.300	Point
PBHL(ALD26#5)	8990.00	7550.05	-829.30	469675.980	722362.730	Point



Plan: Design #1 (#5H/OH)

Created By: Nate Bingham Date: 14:09, November 23 2010



Devon Energy Production Company, L.P.

Eddy County

Aldabra "26" Fed

#5H

OH

Plan: Design #1

Pathfinder X & Y Planning Report

23 November, 2010

The logo for Pathfinder, featuring the word "PATHFINDER" in a bold, uppercase, sans-serif font. The letters are filled with a dense, cross-hatched pattern, giving it a textured appearance.

A Schlumberger Company

devon

Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Aldabra "26" Fed
Well: #5H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Site Aldabra "26" Fed
TVD Reference: WELL @ 3489.70usft (H&P #416)
MD Reference: WELL @ 3489.70usft (H&P #416)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM-5000.1 Single User Db

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

Site:	Aldabra "26" Fed		
Site Position:		Northing:	462,125.930 usft
From:	Map	Easting:	723,192.030 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 8.718 N
		Longitude:	103° 44' 41.866 W
		Grid Convergence:	0.31 °

Well	#5H					
Well Position	+N/-S	0.00 usft	Northing:	462,125.930 usft	Latitude:	32° 16' 8.718 N
	+E/-W	0.00 usft	Easting:	723,192.030 usft	Longitude:	103° 44' 41.866 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,463.70 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/23/10	7.72	60.23	48,714

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	353.73

Survey Tool Program	Date	11/23/10		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	16,892.76	Design #1 (OH)		



Pathfinder
Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Aldabra "26" Fed
Well: #5H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Site Aldabra "26" Fed
TVD Reference: WELL @ 3489.70usft (H&P #416)
MD Reference: WELL @ 3489.70usft (H&P #416)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	INC (°)	Azi (°)	TVD (usft)	TVDSS (usft)	NIS (usft)	EW (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	3,489.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
100.00	0.00	0.00	100.00	3,389.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
200.00	0.00	0.00	200.00	3,289.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
300.00	0.00	0.00	300.00	3,189.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
400.00	0.00	0.00	400.00	3,089.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
500.00	0.00	0.00	500.00	2,989.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
600.00	0.00	0.00	600.00	2,889.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
700.00	0.00	0.00	700.00	2,789.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
800.00	0.00	0.00	800.00	2,689.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
900.00	0.00	0.00	900.00	2,589.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,000.00	0.00	0.00	1,000.00	2,489.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,100.00	0.00	0.00	1,100.00	2,389.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,200.00	0.00	0.00	1,200.00	2,289.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,300.00	0.00	0.00	1,300.00	2,189.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,400.00	0.00	0.00	1,400.00	2,089.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,500.00	0.00	0.00	1,500.00	1,989.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,600.00	0.00	0.00	1,600.00	1,889.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,700.00	0.00	0.00	1,700.00	1,789.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,800.00	0.00	0.00	1,800.00	1,689.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
1,900.00	0.00	0.00	1,900.00	1,589.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,000.00	0.00	0.00	2,000.00	1,489.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,100.00	0.00	0.00	2,100.00	1,389.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,200.00	0.00	0.00	2,200.00	1,289.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,300.00	0.00	0.00	2,300.00	1,189.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,400.00	0.00	0.00	2,400.00	1,089.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,500.00	0.00	0.00	2,500.00	989.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,600.00	0.00	0.00	2,600.00	889.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03



Pathfinder
Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Aldabra "26" Fed
Well: #5H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Site Aldabra "26" Fed
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Survey Calculation Method: Minimum Curvature
Database: EDM:5000.1' Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
2,700.00	0.00	0.00	2,700.00	789.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,800.00	0.00	0.00	2,800.00	689.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
2,900.00	0.00	0.00	2,900.00	589.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,000.00	0.00	0.00	3,000.00	489.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,100.00	0.00	0.00	3,100.00	389.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,200.00	0.00	0.00	3,200.00	289.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,300.00	0.00	0.00	3,300.00	189.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,400.00	0.00	0.00	3,400.00	89.70	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,500.00	0.00	0.00	3,500.00	-10.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,600.00	0.00	0.00	3,600.00	-110.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,700.00	0.00	0.00	3,700.00	-210.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,800.00	0.00	0.00	3,800.00	-310.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
3,900.00	0.00	0.00	3,900.00	-410.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,000.00	0.00	0.00	4,000.00	-510.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,100.00	0.00	0.00	4,100.00	-610.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,200.00	0.00	0.00	4,200.00	-710.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,300.00	0.00	0.00	4,300.00	-810.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,400.00	0.00	0.00	4,400.00	-910.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,500.00	0.00	0.00	4,500.00	-1,010.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,600.00	0.00	0.00	4,600.00	-1,110.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,700.00	0.00	0.00	4,700.00	-1,210.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,800.00	0.00	0.00	4,800.00	-1,310.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
4,900.00	0.00	0.00	4,900.00	-1,410.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,000.00	0.00	0.00	5,000.00	-1,510.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,100.00	0.00	0.00	5,100.00	-1,610.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,200.00	0.00	0.00	5,200.00	-1,710.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,300.00	0.00	0.00	5,300.00	-1,810.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Incl (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
5,400.00	0.00	0.00	5,400.00	-1,910.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,500.00	0.00	0.00	5,500.00	-2,010.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,600.00	0.00	0.00	5,600.00	-2,110.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,700.00	0.00	0.00	5,700.00	-2,210.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,800.00	0.00	0.00	5,800.00	-2,310.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
5,900.00	0.00	0.00	5,900.00	-2,410.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,000.00	0.00	0.00	6,000.00	-2,510.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,100.00	0.00	0.00	6,100.00	-2,610.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,200.00	0.00	0.00	6,200.00	-2,710.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,300.00	0.00	0.00	6,300.00	-2,810.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,400.00	0.00	0.00	6,400.00	-2,910.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,500.00	0.00	0.00	6,500.00	-3,010.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,600.00	0.00	0.00	6,600.00	-3,110.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,700.00	0.00	0.00	6,700.00	-3,210.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,800.00	0.00	0.00	6,800.00	-3,310.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
6,900.00	0.00	0.00	6,900.00	-3,410.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,000.00	0.00	0.00	7,000.00	-3,510.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,100.00	0.00	0.00	7,100.00	-3,610.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,200.00	0.00	0.00	7,200.00	-3,710.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,300.00	0.00	0.00	7,300.00	-3,810.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,400.00	0.00	0.00	7,400.00	-3,910.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,500.00	0.00	0.00	7,500.00	-4,010.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,600.00	0.00	0.00	7,600.00	-4,110.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,700.00	0.00	0.00	7,700.00	-4,210.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,800.00	0.00	0.00	7,800.00	-4,310.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
7,900.00	0.00	0.00	7,900.00	-4,410.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
8,000.00	0.00	0.00	8,000.00	-4,510.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03



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Planned Survey

MD (usft)	Incl (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
8,100.00	0.00	0.00	8,100.00	-4,610.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
8,156.00	0.00	0.00	8,156.00	-4,666.30	0.00	0.00	0.00	0.00	462,125.93	723,192.03
8,175.00	2.18	239.74	8,175.00	-4,685.30	-0.18	-0.31	-0.15	11.50	462,125.75	723,191.72
8,200.00	5.06	239.74	8,199.94	-4,710.24	-0.98	-1.68	-0.79	11.50	462,124.95	723,190.35
8,225.00	7.93	239.74	8,224.78	-4,735.08	-2.40	-4.12	-1.94	11.50	462,123.53	723,187.91
8,250.00	10.81	239.74	8,249.44	-4,759.74	-4.45	-7.64	-3.59	11.50	462,121.48	723,184.39
8,275.00	13.68	239.74	8,273.87	-4,784.17	-7.13	-12.21	-5.75	11.50	462,118.80	723,179.82
8,300.00	16.56	239.74	8,298.00	-4,808.30	-10.41	-17.85	-8.40	11.50	462,115.52	723,174.18
8,325.00	19.43	239.74	8,321.78	-4,832.08	-14.30	-24.52	-11.54	11.50	462,111.63	723,167.51
8,350.00	22.31	239.74	8,345.14	-4,855.44	-18.79	-32.21	-15.16	11.50	462,107.14	723,159.82
8,375.00	25.18	239.74	8,368.02	-4,878.32	-23.86	-40.90	-19.25	11.50	462,102.07	723,151.13
8,400.00	28.05	239.74	8,390.37	-4,900.67	-29.50	-50.58	-23.80	11.50	462,096.43	723,141.45
8,425.00	30.93	239.74	8,412.12	-4,922.42	-35.70	-61.21	-28.81	11.50	462,090.23	723,130.82
8,450.00	33.80	239.74	8,433.24	-4,943.54	-42.45	-72.76	-34.25	11.50	462,083.46	723,119.27
8,475.00	36.68	239.74	8,453.65	-4,963.95	-49.71	-85.22	-40.11	11.50	462,076.22	723,106.81
8,500.00	39.55	239.74	8,473.32	-4,983.62	-57.49	-98.55	-46.39	11.50	462,068.44	723,093.48
8,525.00	42.43	239.74	8,492.19	-5,002.49	-65.75	-112.71	-53.05	11.50	462,060.18	723,079.32
8,550.00	45.30	239.74	8,510.21	-5,020.51	-74.48	-127.68	-60.09	11.50	462,051.45	723,064.35
8,575.00	48.18	239.74	8,527.35	-5,037.65	-83.65	-143.40	-67.49	11.50	462,042.28	723,048.63
8,600.00	51.05	239.74	8,543.54	-5,053.84	-93.25	-159.85	-75.23	11.50	462,032.68	723,032.18
8,625.00	53.92	239.74	8,558.76	-5,069.06	-103.24	-176.97	-83.30	11.50	462,022.69	723,015.06
8,650.00	56.80	239.74	8,572.97	-5,083.27	-113.60	-194.74	-91.66	11.50	462,012.33	722,997.29
8,666.88	58.74	239.74	8,581.97	-5,092.27	-120.79	-207.07	-97.46	11.50	462,005.14	722,984.96
8,675.00	58.48	240.79	8,586.20	-5,096.50	-124.23	-213.09	-100.22	11.50	462,001.70	722,978.94
8,700.00	57.72	244.06	8,599.42	-5,109.72	-134.06	-231.90	-107.93	11.50	461,991.87	722,960.13
8,725.00	57.05	247.38	8,612.90	-5,123.20	-142.72	-251.09	-114.45	11.50	461,983.21	722,940.94
8,750.00	56.47	250.74	8,626.60	-5,136.90	-150.19	-270.61	-119.74	11.50	461,975.74	722,921.42



Pathfinder
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Site: Aldabra "26" Fed
Well: #5H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Site Aldabra "26" Fed
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Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	V. Sec (usft)	D Legt (°/100usft)	Northing (usft)	Easting (usft)
8,775.00	55.98	254.15	8,640.50	-5,150.80	-156.45	-290.42	-123.81	11.50	461,969.48	722,901.61
8,800.00	55.58	257.60	8,654.57	-5,164.87	-161.50	-310.46	-126.64	11.50	461,964.43	722,881.57
8,825.00	55.29	261.07	8,668.75	-5,179.05	-165.31	-330.69	-128.22	11.50	461,960.62	722,861.34
8,850.00	55.09	264.56	8,683.03	-5,193.33	-167.88	-351.05	-128.55	11.50	461,958.05	722,840.98
8,875.00	54.99	268.07	8,697.35	-5,207.65	-169.20	-371.49	-127.63	11.50	461,956.73	722,820.54
8,900.00	55.00	271.58	8,711.70	-5,222.00	-169.26	-391.96	-125.45	11.50	461,956.67	722,800.07
8,925.00	55.10	275.08	8,726.02	-5,236.32	-168.07	-412.41	-122.04	11.50	461,957.86	722,779.62
8,950.00	55.30	278.57	8,740.29	-5,250.59	-165.63	-432.79	-117.39	11.50	461,960.30	722,759.24
8,975.00	55.61	282.04	8,754.47	-5,264.77	-161.95	-453.04	-111.51	11.50	461,963.98	722,738.99
9,000.00	56.01	285.48	8,768.52	-5,278.82	-157.03	-473.12	-104.43	11.50	461,968.90	722,718.91
9,025.00	56.50	288.89	8,782.41	-5,292.71	-150.88	-492.98	-96.16	11.50	461,975.05	722,699.05
9,050.00	57.09	292.25	8,796.11	-5,306.41	-143.54	-512.56	-86.71	11.50	461,982.39	722,679.47
9,075.00	57.77	295.57	8,809.57	-5,319.87	-135.00	-531.81	-76.12	11.50	461,990.93	722,660.22
9,100.00	58.53	298.83	8,822.76	-5,333.06	-125.29	-550.70	-64.41	11.50	462,000.64	722,641.33
9,125.00	59.37	302.04	8,835.66	-5,345.96	-114.44	-569.16	-51.61	11.50	462,011.49	722,622.87
9,150.00	60.29	305.19	8,848.22	-5,358.52	-102.48	-587.15	-37.76	11.50	462,023.45	722,604.88
9,175.00	61.29	308.28	8,860.43	-5,370.73	-89.43	-604.64	-22.87	11.50	462,036.50	722,587.39
9,200.00	62.35	311.31	8,872.23	-5,382.53	-75.32	-621.56	-7.01	11.50	462,050.61	722,570.47
9,225.00	63.48	314.28	8,883.62	-5,393.92	-60.20	-637.89	9.81	11.50	462,065.73	722,554.14
9,250.00	64.66	317.19	8,894.55	-5,404.85	-44.10	-653.58	27.52	11.50	462,081.83	722,538.45
9,275.00	65.91	320.04	8,905.01	-5,415.31	-27.06	-668.59	46.10	11.50	462,098.87	722,523.44
9,300.00	67.20	322.84	8,914.96	-5,425.26	-9.13	-682.88	65.48	11.50	462,116.80	722,509.15
9,325.00	68.54	325.58	8,924.37	-5,434.67	9.66	-696.42	85.64	11.50	462,135.59	722,495.61
9,350.00	69.93	328.28	8,933.24	-5,443.54	29.24	-709.17	106.50	11.50	462,155.17	722,482.86
9,375.00	71.36	330.92	8,941.53	-5,451.83	49.59	-721.11	128.02	11.50	462,175.52	722,470.92
9,400.00	72.82	333.52	8,949.21	-5,459.51	70.63	-732.19	150.15	11.50	462,196.56	722,459.84
9,425.00	74.32	336.08	8,956.29	-5,466.59	92.33	-742.40	172.83	11.50	462,218.26	722,449.63



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9,450.00	75.84	338.60	8,962.72	-5,473.02	114.62	-751.70	196.00	11.50	462,240.55	722,440.33
9,475.00	77.39	341.09	8,968.51	-5,478.81	137.45	-760.08	219.61	11.50	462,263.38	722,431.95
9,500.00	78.97	343.55	8,973.63	-5,483.93	160.76	-767.51	243.60	11.50	462,286.69	722,424.52
9,525.00	80.56	345.98	8,978.07	-5,488.37	184.49	-773.97	267.90	11.50	462,310.42	722,418.06
9,550.00	82.17	348.39	8,981.83	-5,492.13	208.59	-779.45	292.45	11.50	462,334.52	722,412.58
9,575.00	83.80	350.78	8,984.88	-5,495.18	232.99	-783.94	317.19	11.50	462,358.92	722,408.09
9,600.00	85.43	353.15	8,987.23	-5,497.53	257.64	-787.42	342.07	11.50	462,383.57	722,404.61
9,625.00	87.07	355.52	8,988.86	-5,499.16	282.46	-789.88	367.01	11.50	462,408.39	722,402.15
9,650.00	88.72	357.87	8,989.78	-5,500.08	307.40	-791.32	391.96	11.50	462,433.33	722,400.71
9,669.42	90.00	359.70	8,990.00	-5,500.30	326.81	-791.73	411.30	11.50	462,452.74	722,400.30
Heal TGT(ALD26#5)										
9,700.00	90.00	359.70	8,990.00	-5,500.30	357.39	-791.89	441.71	0.00	462,483.32	722,400.14
9,800.00	90.00	359.70	8,990.00	-5,500.30	457.39	-792.41	541.17	0.00	462,583.32	722,399.62
9,900.00	90.00	359.70	8,990.00	-5,500.30	557.39	-792.93	640.63	0.00	462,683.32	722,399.10
10,000.00	90.00	359.70	8,990.00	-5,500.30	657.39	-793.45	740.09	0.00	462,783.32	722,398.58
10,100.00	90.00	359.70	8,990.00	-5,500.30	757.38	-793.97	839.54	0.00	462,883.31	722,398.06
10,200.00	90.00	359.70	8,990.00	-5,500.30	857.38	-794.49	939.00	0.00	462,983.31	722,397.54
10,300.00	90.00	359.70	8,990.00	-5,500.30	957.38	-795.01	1,038.46	0.00	463,083.31	722,397.02
10,400.00	90.00	359.70	8,990.00	-5,500.30	1,057.38	-795.53	1,137.92	0.00	463,183.31	722,396.50
10,500.00	90.00	359.70	8,990.00	-5,500.30	1,157.38	-796.05	1,237.37	0.00	463,283.31	722,395.98
10,600.00	90.00	359.70	8,990.00	-5,500.30	1,257.38	-796.57	1,336.83	0.00	463,383.31	722,395.46
10,700.00	90.00	359.70	8,990.00	-5,500.30	1,357.38	-797.09	1,436.29	0.00	463,483.31	722,394.94
10,800.00	90.00	359.70	8,990.00	-5,500.30	1,457.37	-797.61	1,535.75	0.00	463,583.30	722,394.42
10,900.00	90.00	359.70	8,990.00	-5,500.30	1,557.37	-798.13	1,635.21	0.00	463,683.30	722,393.90
11,000.00	90.00	359.70	8,990.00	-5,500.30	1,657.37	-798.65	1,734.66	0.00	463,783.30	722,393.38
11,100.00	90.00	359.70	8,990.00	-5,500.30	1,757.37	-799.17	1,834.12	0.00	463,883.30	722,392.86
11,200.00	90.00	359.70	8,990.00	-5,500.30	1,857.37	-799.69	1,933.58	0.00	463,983.30	722,392.34



Pathfinder
Pathfinder X & Y Planning Report



Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Aldabra "26" Fed
Well: #5H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Site Aldabra "26" Fed
TVD Reference: WELL @ 3489.70usft (H&P #416)
MD Reference: WELL @ 3489.70usft (H&P #416)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Incl (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (ft/100usft)	Northing (usft)	Easting (usft)
11,300.00	90.00	359.70	8,990.00	-5,500.30	1,957.37	-800.21	2,033.04	0.00	464,083.30	722,391.82
11,400.00	90.00	359.70	8,990.00	-5,500.30	2,057.37	-800.73	2,132.49	0.00	464,183.30	722,391.30
11,500.00	90.00	359.70	8,990.00	-5,500.30	2,157.36	-801.25	2,231.95	0.00	464,283.29	722,390.78
11,600.00	90.00	359.70	8,990.00	-5,500.30	2,257.36	-801.77	2,331.41	0.00	464,383.29	722,390.26
11,700.00	90.00	359.70	8,990.00	-5,500.30	2,357.36	-802.29	2,430.87	0.00	464,483.29	722,389.74
11,800.00	90.00	359.70	8,990.00	-5,500.30	2,457.36	-802.81	2,530.32	0.00	464,583.29	722,389.22
11,900.00	90.00	359.70	8,990.00	-5,500.30	2,557.36	-803.33	2,629.78	0.00	464,683.29	722,388.70
12,000.00	90.00	359.70	8,990.00	-5,500.30	2,657.36	-803.85	2,729.24	0.00	464,783.29	722,388.18
12,100.00	90.00	359.70	8,990.00	-5,500.30	2,757.36	-804.37	2,828.70	0.00	464,883.29	722,387.66
12,200.00	90.00	359.70	8,990.00	-5,500.30	2,857.36	-804.89	2,928.15	0.00	464,983.29	722,387.14
12,300.00	90.00	359.70	8,990.00	-5,500.30	2,957.35	-805.41	3,027.61	0.00	465,083.28	722,386.62
12,400.00	90.00	359.70	8,990.00	-5,500.30	3,057.35	-805.93	3,127.07	0.00	465,183.28	722,386.10
12,500.00	90.00	359.70	8,990.00	-5,500.30	3,157.35	-806.45	3,226.53	0.00	465,283.28	722,385.58
12,600.00	90.00	359.70	8,990.00	-5,500.30	3,257.35	-806.97	3,325.98	0.00	465,383.28	722,385.06
12,700.00	90.00	359.70	8,990.00	-5,500.30	3,357.35	-807.49	3,425.44	0.00	465,483.28	722,384.54
12,800.00	90.00	359.70	8,990.00	-5,500.30	3,457.35	-808.01	3,524.90	0.00	465,583.28	722,384.02
12,900.00	90.00	359.70	8,990.00	-5,500.30	3,557.35	-808.53	3,624.36	0.00	465,683.28	722,383.50
13,000.00	90.00	359.70	8,990.00	-5,500.30	3,657.34	-809.05	3,723.81	0.00	465,783.27	722,382.98
13,100.00	90.00	359.70	8,990.00	-5,500.30	3,757.34	-809.57	3,823.27	0.00	465,883.27	722,382.46
13,200.00	90.00	359.70	8,990.00	-5,500.30	3,857.34	-810.09	3,922.73	0.00	465,983.27	722,381.94
13,300.00	90.00	359.70	8,990.00	-5,500.30	3,957.34	-810.61	4,022.19	0.00	466,083.27	722,381.42
13,400.00	90.00	359.70	8,990.00	-5,500.30	4,057.34	-811.13	4,121.65	0.00	466,183.27	722,380.90
13,500.00	90.00	359.70	8,990.00	-5,500.30	4,157.34	-811.65	4,221.10	0.00	466,283.27	722,380.38
13,600.00	90.00	359.70	8,990.00	-5,500.30	4,257.34	-812.17	4,320.56	0.00	466,383.27	722,379.86
13,700.00	90.00	359.70	8,990.00	-5,500.30	4,357.34	-812.69	4,420.02	0.00	466,483.27	722,379.34
13,800.00	90.00	359.70	8,990.00	-5,500.30	4,457.33	-813.21	4,519.48	0.00	466,583.26	722,378.82
13,900.00	90.00	359.70	8,990.00	-5,500.30	4,557.33	-813.73	4,618.93	0.00	466,683.26	722,378.30



Pathfinder
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Wellbore: OH
Design: Design #1

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MD Reference: WELL @ 3489.70usft (H&P #416)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V-Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
14,000.00	90.00	359.70	8,990.00	-5,500.30	4,657.33	-814.25	4,718.39	0.00	466,783.26	722,377.78
14,100.00	90.00	359.70	8,990.00	-5,500.30	4,757.33	-814.77	4,817.85	0.00	466,883.26	722,377.26
14,200.00	90.00	359.70	8,990.00	-5,500.30	4,857.33	-815.29	4,917.31	0.00	466,983.26	722,376.74
14,300.00	90.00	359.70	8,990.00	-5,500.30	4,957.33	-815.81	5,016.76	0.00	467,083.26	722,376.22
14,400.00	90.00	359.70	8,990.00	-5,500.30	5,057.33	-816.33	5,116.22	0.00	467,183.26	722,375.70
14,500.00	90.00	359.70	8,990.00	-5,500.30	5,157.32	-816.85	5,215.68	0.00	467,283.25	722,375.18
14,600.00	90.00	359.70	8,990.00	-5,500.30	5,257.32	-817.37	5,315.14	0.00	467,383.25	722,374.66
14,700.00	90.00	359.70	8,990.00	-5,500.30	5,357.32	-817.90	5,414.59	0.00	467,483.25	722,374.13
14,800.00	90.00	359.70	8,990.00	-5,500.30	5,457.32	-818.42	5,514.05	0.00	467,583.25	722,373.61
14,900.00	90.00	359.70	8,990.00	-5,500.30	5,557.32	-818.94	5,613.51	0.00	467,683.25	722,373.09
15,000.00	90.00	359.70	8,990.00	-5,500.30	5,657.32	-819.46	5,712.97	0.00	467,783.25	722,372.57
15,100.00	90.00	359.70	8,990.00	-5,500.30	5,757.32	-819.98	5,812.42	0.00	467,883.25	722,372.05
15,200.00	90.00	359.70	8,990.00	-5,500.30	5,857.31	-820.50	5,911.88	0.00	467,983.24	722,371.53
15,300.00	90.00	359.70	8,990.00	-5,500.30	5,957.31	-821.02	6,011.34	0.00	468,083.24	722,371.01
15,400.00	90.00	359.70	8,990.00	-5,500.30	6,057.31	-821.54	6,110.80	0.00	468,183.24	722,370.49
15,500.00	90.00	359.70	8,990.00	-5,500.30	6,157.31	-822.06	6,210.25	0.00	468,283.24	722,369.97
15,600.00	90.00	359.70	8,990.00	-5,500.30	6,257.31	-822.58	6,309.71	0.00	468,383.24	722,369.45
15,700.00	90.00	359.70	8,990.00	-5,500.30	6,357.31	-823.10	6,409.17	0.00	468,483.24	722,368.93
15,800.00	90.00	359.70	8,990.00	-5,500.30	6,457.31	-823.62	6,508.63	0.00	468,583.24	722,368.41
15,900.00	90.00	359.70	8,990.00	-5,500.30	6,557.31	-824.14	6,608.09	0.00	468,683.24	722,367.89
16,000.00	90.00	359.70	8,990.00	-5,500.30	6,657.30	-824.66	6,707.54	0.00	468,783.23	722,367.37
16,100.00	90.00	359.70	8,990.00	-5,500.30	6,757.30	-825.18	6,807.00	0.00	468,883.23	722,366.85
16,200.00	90.00	359.70	8,990.00	-5,500.30	6,857.30	-825.70	6,906.46	0.00	468,983.23	722,366.33
16,300.00	90.00	359.70	8,990.00	-5,500.30	6,957.30	-826.22	7,005.92	0.00	469,083.23	722,365.81
16,400.00	90.00	359.70	8,990.00	-5,500.30	7,057.30	-826.74	7,105.37	0.00	469,183.23	722,365.29
16,500.00	90.00	359.70	8,990.00	-5,500.30	7,157.30	-827.26	7,204.83	0.00	469,283.23	722,364.77
16,600.00	90.00	359.70	8,990.00	-5,500.30	7,257.30	-827.78	7,304.29	0.00	469,383.23	722,364.25



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Wellbore: OH
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Local Co-ordinate Reference: Site Aldabra "26" Fed
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MD Reference: WELL @ 3489.70usft (H&P #416)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM-5000.1 Single User Db

Planned Survey

MD (usft)	Incl (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
16,700.00	90.00	359.70	8,990.00	-5,500.30	7,357.29	-828.30	7,403.75	0.00	469,483.22	722,363.73
16,800.00	90.00	359.70	8,990.00	-5,500.30	7,457.29	-828.82	7,503.20	0.00	469,583.22	722,363.21
16,892.76	90.00	359.70	8,990.00	-5,500.30	7,550.05	-829.30	7,595.46	0.00	469,675.98	722,362.73

PBHL(ALD26#5)

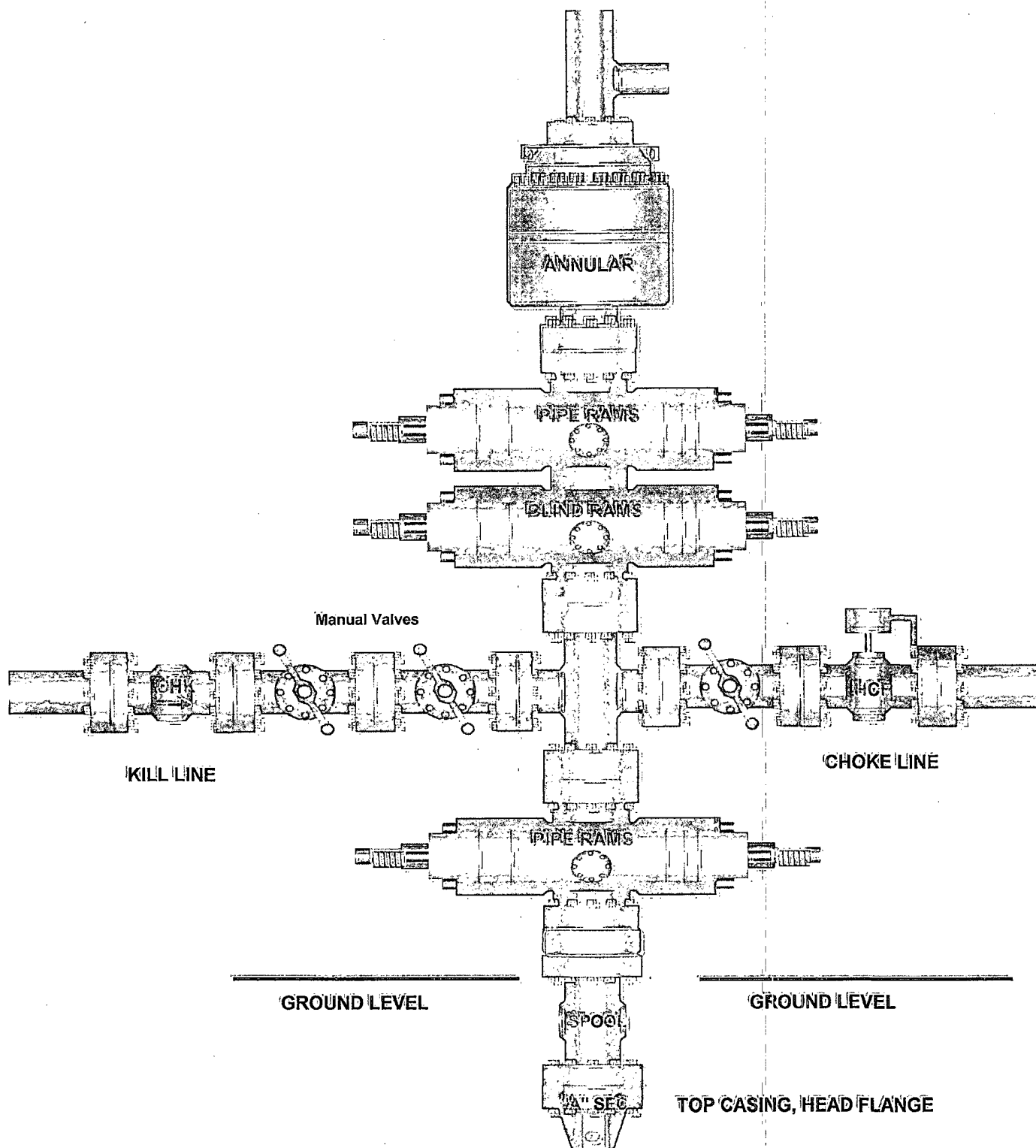
Checked By: _____ Approved By: _____ Date: _____

Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Aldabra 26 Federal 5H

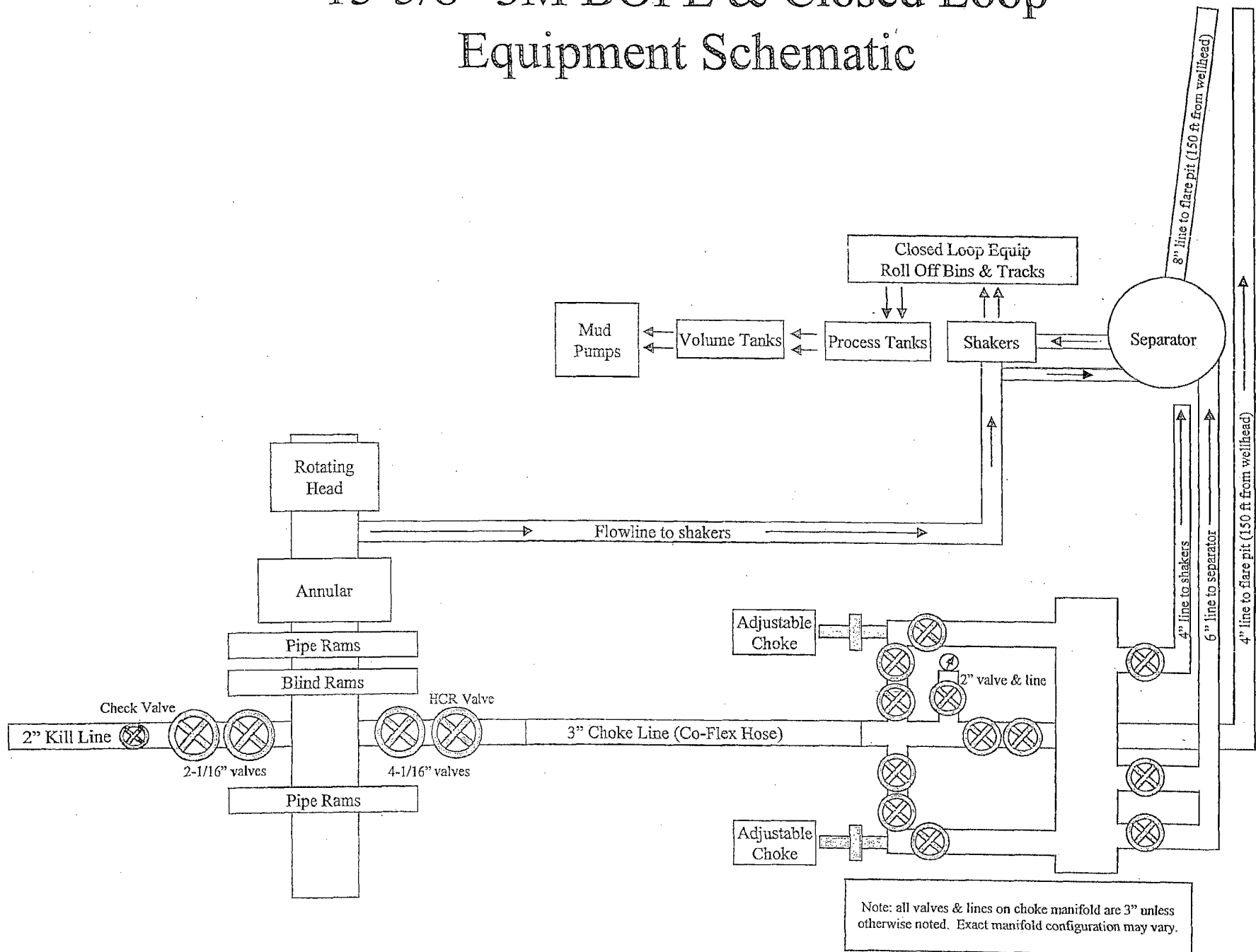
Surface Location: 330' FSL & 1520' FEL, Unit O, Sec 26 T23S R31E, Eddy, NM
Bottom hole Location: 2600' FSL & 2310' FEL, Unit J, Sec 23 T23S R31E, Eddy, NM

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 3000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 3000 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.

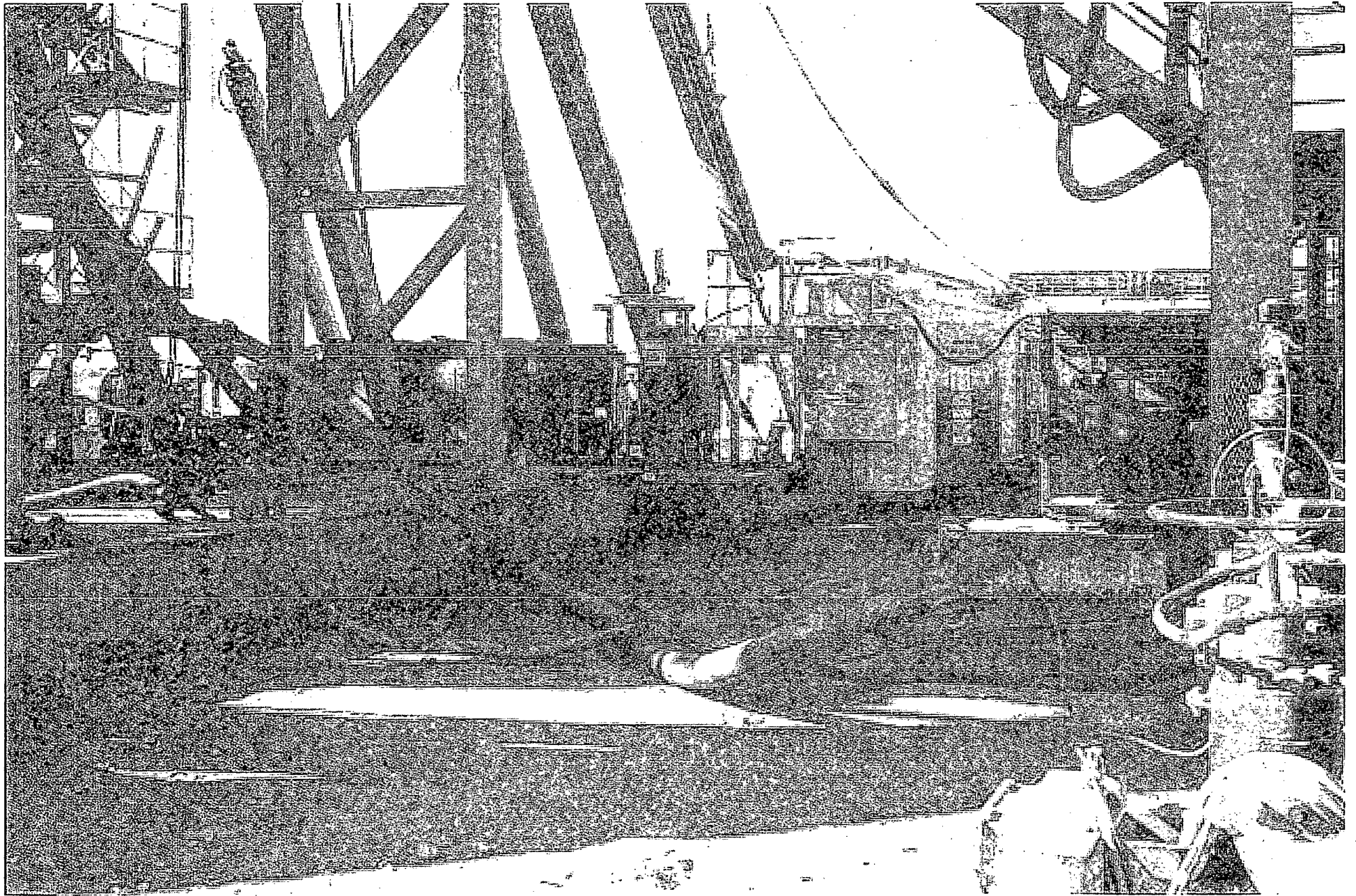
13-5/8" x 3,000 psi BOP Stack



13-5/8" 3M BOPE & Closed Loop Equipment Schematic



New







Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

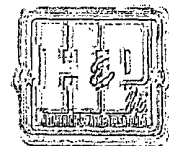
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

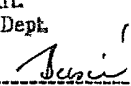
ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1713	
PURCHASER: ContiTech Beattie Co.				P.O. N°: 002808	
CONTITECH ORDER N°: 426127		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 53622		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" Flange end		5503 2029		AISI 4130 AISI 4130	
				Heat N°	
				N1590P 27566	
INFOCHIP INSTALLED				API Spec 16 C	
				Temperature rate:"B"	
All metal parts are flawless				Hose conform to NACE MR 01-75	
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date:		Inspector		Quality Control	
25. August. 2008				ContiTech Rubber Industrial Kft. Quality Control Dept.  	

DISTRICT 1 --- CHECKLIST FOR INTENTS TO DRILL

Operator DEVON ENERGY PROD CO LP OGRID # 6137
 Well Name & # ALDABRA 26 FED # SH Surface Type (F) (S) (P)
 Location: UL 0, Sect 26, Twnship 23s, RNG 31e,
5 - 23 - 23 - 31 Sub-surface Type (F) (S) (P)

A. Date C101 rec'd / / C101 reviewed / /

B. 1. Check mark, Information is OK on Forms:

OGRID X, BONDING FED, PROP CODE X, WELL # X, SIGNATURE

2. Inactive Well list as of: 3/30/11 # wells 1498 # Inactive wells 3

a. District Grant APD but see number of inactive wells:

No letter required X; Sent Letter to Operator Santa Fe

3. Additional Bonding as of: 3/30/11

a. District Denial because operator needs addition bonding:

No Letter required X; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required X; Sent Letter to Operator , To Santa Fe

C. C102 YES X, NO , Signature

1. Pool WILDCAT; BONE SPRING, Code 96403

a. Dedicated acreage 240, What Units 23: JO 26: B650

b. SUR. Location Standard X Non-Standard Location

c. Well shares acres: Yes X, No , # of wells plus this well # 6H

2. 2nd. Operator in same acreage, Yes , No

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes X No

a. Dedicated acreage 240, What Units 23: JO 26: B650

b. Bottomhole Location Standard , Non-Standard Bottomhole X

4. Downhole Commingle: Yes , No X

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No FED

D. Blowout Preventer Yes X No

E. H2S Yes X No Part of FED

F. C144 Pit Registration Yes , No X need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes X, No , NSL #

2. Non-Standard Proration: Yes , No X, NSP #

3. Simultaneous Dedication: Yes , No X, SD #

Number of wells Plus #

4. Injection order Yes , No X; PMX # or WFX #

5. SWD order Yes , NO X; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date 3/30/11

API #30-015--38621

8. Reviewers KZ