

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD
OCD Hobbs
APR 11 2013

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

5. Lease Serial No.
NMLC-061842

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
BAE 14 FED COM 1H

9. API Well No.

30-025-41100

10. Field and Pool, or Exploratory

Maljammar Yeso, WEST (44500) K2

11. Sec., T. R. M. or Blk. and Survey or Area
14-17S-32E

12. County or Parish
Lea County

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 Company, L.P.

3a. Address 333 W. Sheridan Ave.
Oklahoma City, OK 73102

3b. Phone No. (include area code)
405-552-7848

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

At surface 660 FNL & 200 FEL Unit A

PP: 660 FNL & 530 FEL

At proposed prod. zone 660 FNL & 330 FWL Unit D

14. Distance in miles and direction from nearest town or post office*
Approximately 5 miles southeast of Maljammar, 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
480 acres

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: 5,840' MD: 10,501'
Pilot Hole: 7,000'

20. BLM/BIA Bond No. on file
CO-1104 & NMB-000801

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
4,116.1' GL

22. Approximate date work will start*

23. Estimated duration
20 days

24. Attachments TO BE PAD DRILLED w/ BAE 14 FED COM 2H

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

Name (Printed/Typed)
David H. Cook

Date
2/19/2013

Title

Regulatory Specialist

Approved by (Signature)

James A. Ames

Name (Printed/Typed)

James A. Ames

Date
APR - 5 2013

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.

(Continued on page 2)

Roswell Controlled Water Basin

*(Instructions on page 2)

K2
04/12/13

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

APR 15 2013

DRILLING PROGRAM

Devon Energy Production Company, LP

BAE 14 Fed Com 1H

Surface Location: 660 FNL & 200 FEL, Unit A, Sec 14 T17S R32E, Lea, NM

Bottom Hole Location: 660 FNL & 330 FWL, Unit D, Sec 14 T17S R32E, 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. Fresh Water	70'	
b. Rustler	1,030'	
c. Top of Salt	1,275'	
d. Base of Salt	2,410'	
e. Yates	2,420'	
f. Seven Rivers	2,760'	
g. Queen	3,360'	Oil
h. Grayburg	3,800'	Oil
i. San Andres	4,010'	Oil
j. Glorieta	5,610'	Oil
k. Paddock	5,710'	Oil
l. Pilot Hole	7,000'	

Total Depth 10,501' MD 5,840' TVD

3. Casing Program: (All casing is new and API approved.)

<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'-1,100'	13 3/8"	0'-1,100'	48#	ST&C	H-40
12 1/4"	1,100'- 2,550' ^{2400'}	9 5/8"	0'- 2,550'	36#	LT&C	J-55
8 3/4"	2,550' -6,100'	5 1/2"	0'-6,100'	17#	LT&C	HCP-110
8 3/4"	6,100'-10,501'	5 1/2"	6,100'-10,501'	17#	BT&C	HCP-110

An 8-3/4" pilot hole will be drilled to 7000 ft, and plugged back to KOP with approx 885 sxs Class H, 15.6 ppg, 1.18 cf/sk cement.

MAXIMUM LATERAL TVD

~~5955'~~
5,840'

DRILLING PROGRAM
Devon Energy Production Company, LP
BAE 14 Fed Com 1H

Surface Location: 660 FNL & 200 FEL, Unit A, Sec 14 T17S R32E, Lea, NM
Bottom Hole Location: 660 FNL & 330 FWL, Unit D, Sec 14 T17S R32E, 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. Fresh Water	70'	
b. Top of Salt	1,275'	
c. Base of Salt	2,410'	
d. Yates	2,420'	
e. Seven Rivers	2,760'	
f. Queen	3,360'	Oil
g. Grayburg	3,800'	Oil
h. San Andres	4,010'	Oil
i. Glorieta	5,610'	Oil
j. Paddock	5,710'	Oil
k. Pilot Hole	7,000'	

25
4/1/13

Total Depth 10,501' MD 5,840' TVD

3. Casing Program: (All casing is new and API approved.)

<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'-1,100'	13 3/8"	0'-1,100'	48#	ST&C	H-40
12 1/4"	1,100'-2,550'	9 5/8"	0'-2,550'	36#	LT&C	J-55
8 3/4"	2,550'-6,100'	5 1/2"	0'-6,100'	17#	LT&C	HCP-110
8 3/4"	6,100'-10,501'	5 1/2"	6,100'-10,501'	17#	BT&C	HCP-110

An 8-3/4" pilot hole will be drilled to 7000 ft, and plugged back to KOP with approx 885 sxs Class H, 15.6 ppg, 1.18 cf/sk cement.

MAXIMUM LATERAL TVD **5,840**

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design</u> <u>Factor</u>	<u>Burst Design</u> <u>Factor</u>	<u>Tension Design</u> <u>Factor</u>
13 3/8"	1.65	3.70	6.71
9 5/8"	1.55	2.71	5.03
5 1/2"	2.37	3.37	2.30
5 1/2"	2.61	3.73	6.30

Cement Program: (cement volumes Surface 100%/ Intermediate 50% Production based on at least 25% excess):

13 3/8" Surface Lead: 675 sx Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water, 13.5 ppg, **Yield: 1.75 cf/sk**

TOC @ surface

Tail: 310 sx Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg, **Yield: 1.35 cf/sk**

9-5/8" Intermediate Lead: 400 sx (65:35) Class C Cement:Poz (Fly Ash): + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg, **Yield: 1.85 cf/sk.**

TOC @ surface

Tail: 360 sx Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg, **Yield: 1.33 cf/sk**

5-1/2" Production Lead: 335 sx (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.2% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg, **Yield: 1.95 cf/sk**

Tail: 1710 sx (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg, **Yield: 1.22 cf/sk.**

TOC @ 2050 ft

The above cement volumes could be revised pending the caliper measurement from the open hole logs.

4. Pressure Control Equipment

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

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

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 5,000 psi WP.

If H&P Rig 416 is utilized to drill this well, a variance to Onshore Oil & Gas Order No. 2 is requested. Co-flex hose will be used between the BOPE & the choke manifold. The hose will be kept as straight as possible with minimal turns. Below is a list of current H&P rigs w/ their Co-flex hose specifications:

- H&P Rig 416; Serial No. 53622, 35', 3" ID, 10,000 psi W.P., -20 degrees C (-4 degrees F) to +100 degrees C (212 degrees F) operating temperature, 1.7 meters (5.6 feet) minimum operational bending radius.

If any other rig is used to drill this well, no co-flex hose will be needed.

5. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 1,100	8.4-9.0	30-34	NC	FW
1,100 – 2,550 ²⁴⁰⁰	9.8-10.0	28-32	NC	Brine
6,100 -10,501	8.6-9.0	28-32	N12	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. 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.

7. Logging, Coring, and Testing Program:

- 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.

8. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. 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 2,300 psi and Estimated BHT 110°. No H₂S is anticipated to be encountered.

see COA

see COA

9. 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 20 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.



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Devon Energy, Inc.

Lea County (NAD83)

BAE 14 Fed Com

#1H

OH

Plan: Plan #1

Pathfinder X&Y Report

07 January, 2013

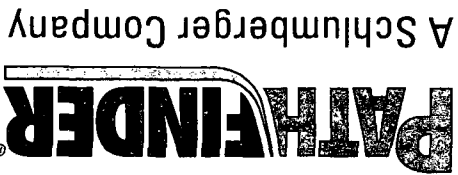
The Devon logo, featuring the word "devon" in a lowercase, serif font. Above the letters "on" are three horizontal bars of increasing length, stacked vertically.

devon



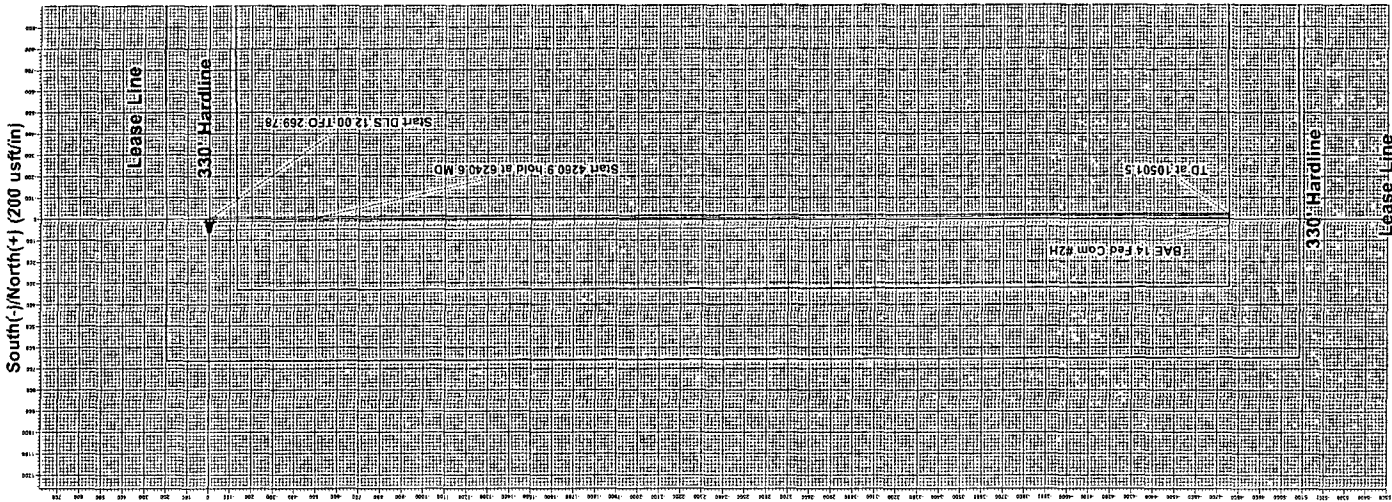
PROJECT DETAILS: Lea County (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

Project: Lea County (NAD83)
Site: BAE 14 Fed Com
Well: #1H
Wellbore: OH
Plan: Plan #1 (#1H/OH)



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West(-)/East(+) (200 usf/in)



WELL DETAILS: #1H

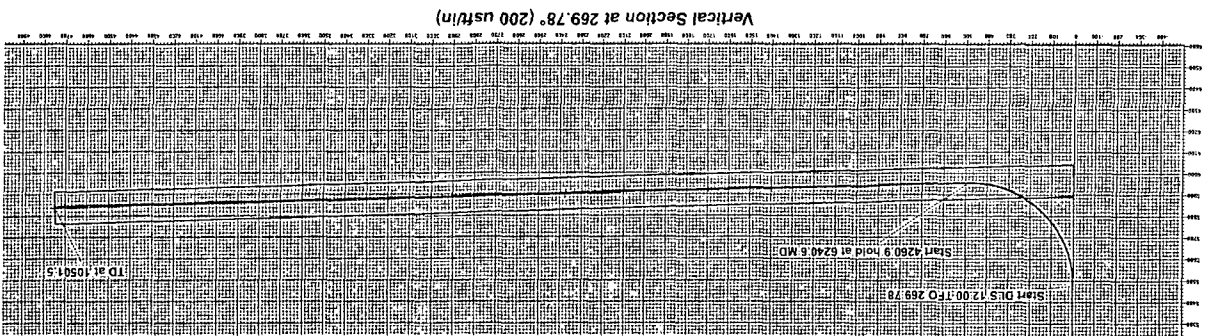
+N/-S	0.0	+E/-W	0.0	669855.780	726900.700	Eastings	32.840000	Latitude	-103.729151	Longitude	Slot
Ground Elevation: 4116.1											
RKB Elevation: KB = 18' @ 4134.1 usf/in (Original Well Elev)											
Rig Name: Original Well Elev											

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	Tface	Vsect	Target
1	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	
2	5477.7	0.00	5477.7	5477.7	0.00	0.00	0.00	0.00	0.0	
3	6240.6	91.55	269.78	5955.0	-1.9	490.3	12.00	269.78	490.4	BAE 14 Fed Com #1H PBHL
4	10501.5	91.55	269.78	5840.0	-16.2	-4749.7	0.00	0.00	4749.7	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	BAE 14 Fed Com #1H PBHL
TVD	5840.0
+N/-S	-16.2
+E/-W	-4749.7
Northings	669837.580
Eastings	722151.030
Shape	Point
Rectangle	Rectangle
Sides:	L4749.0 W20.0



Azimuths to Grid North
True North: -0.33°
Magnetic North: 7.18°
Magnetic Field
Strength: 48807.9 snT
Dip Angle: 60.69°
Date: 1/7/2013
Model: IGRF2010

Plan: Plan #1 (#1H/OH)
Checked By: Michael Trout
Date: 17:01, January 07 2013



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Site:	BAE 14 Fed Com	MD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Well:	#1H	North Reference:	Grid:
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

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

Site:	BAE 14 Fed Com		
Site Position:		Northing:	669,855.780 usft
From:	Map	Easting:	726,900.700 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.840000
		Longitude:	-103.729151
		Grid Convergence:	0.33 °

Well	#1H					
Well Position	+N/-S	0.0 usft	Northing:	669,855.780 usft	Latitude:	32.840000
	+E/-W	0.0 usft	Easting:	726,900.700 usft	Longitude:	-103.729151
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,116.1 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/7/2013	7.51	60.69	48,808

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	269.78

Survey Tool Program	Date:	1/7/2013		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	10,501.3	Plan #1 (OH)	Pathfinder	Pathfinder MWD



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Pathfinder

Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Site:	BAE 14 Fed Com	MD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-4,134.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
100.0	0.00	0.00	100.0	-4,034.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
200.0	0.00	0.00	200.0	-3,934.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
300.0	0.00	0.00	300.0	-3,834.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
400.0	0.00	0.00	400.0	-3,734.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
500.0	0.00	0.00	500.0	-3,634.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
600.0	0.00	0.00	600.0	-3,534.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
700.0	0.00	0.00	700.0	-3,434.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
800.0	0.00	0.00	800.0	-3,334.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
900.0	0.00	0.00	900.0	-3,234.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,000.0	0.00	0.00	1,000.0	-3,134.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,100.0	0.00	0.00	1,100.0	-3,034.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,200.0	0.00	0.00	1,200.0	-2,934.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,300.0	0.00	0.00	1,300.0	-2,834.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,400.0	0.00	0.00	1,400.0	-2,734.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,500.0	0.00	0.00	1,500.0	-2,634.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,600.0	0.00	0.00	1,600.0	-2,534.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,700.0	0.00	0.00	1,700.0	-2,434.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,800.0	0.00	0.00	1,800.0	-2,334.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
1,900.0	0.00	0.00	1,900.0	-2,234.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,000.0	0.00	0.00	2,000.0	-2,134.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,100.0	0.00	0.00	2,100.0	-2,034.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,200.0	0.00	0.00	2,200.0	-1,934.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,300.0	0.00	0.00	2,300.0	-1,834.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,400.0	0.00	0.00	2,400.0	-1,734.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,500.0	0.00	0.00	2,500.0	-1,634.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,600.0	0.00	0.00	2,600.0	-1,534.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18" @ 4134.1usft (Original Well Elev)
Site:	BAE 14 Fed Com	MD Reference:	KB = 18" @ 4134.1usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single-User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.0	0.00	0.00	2,700.0	-1,434.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,800.0	0.00	0.00	2,800.0	-1,334.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
2,900.0	0.00	0.00	2,900.0	-1,234.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,000.0	0.00	0.00	3,000.0	-1,134.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,100.0	0.00	0.00	3,100.0	-1,034.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,200.0	0.00	0.00	3,200.0	-934.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,300.0	0.00	0.00	3,300.0	-834.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,400.0	0.00	0.00	3,400.0	-734.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,500.0	0.00	0.00	3,500.0	-634.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,600.0	0.00	0.00	3,600.0	-534.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,700.0	0.00	0.00	3,700.0	-434.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,800.0	0.00	0.00	3,800.0	-334.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
3,900.0	0.00	0.00	3,900.0	-234.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,000.0	0.00	0.00	4,000.0	-134.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,100.0	0.00	0.00	4,100.0	-34.1	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,200.0	0.00	0.00	4,200.0	65.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,300.0	0.00	0.00	4,300.0	165.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,400.0	0.00	0.00	4,400.0	265.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,500.0	0.00	0.00	4,500.0	365.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,600.0	0.00	0.00	4,600.0	465.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,700.0	0.00	0.00	4,700.0	565.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,800.0	0.00	0.00	4,800.0	665.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
4,900.0	0.00	0.00	4,900.0	765.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
5,000.0	0.00	0.00	5,000.0	865.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
5,100.0	0.00	0.00	5,100.0	965.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
5,200.0	0.00	0.00	5,200.0	1,065.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
5,300.0	0.00	0.00	5,300.0	1,165.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	



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Pathfinder Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Site:	BAE 14 Fed Com	MD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
5,400.0	0.00	0.00	5,400.0	1,265.9	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
5,477.7	0.00	0.00	5,477.7	1,343.6	0.0	0.0	0.0	0.00	669,855.78	726,900.70	
5,500.0	2.68	269.78	5,500.0	1,365.9	0.0	-0.5	0.5	12.00	669,855.78	726,900.18	
5,525.0	5.68	269.78	5,524.9	1,390.8	0.0	-2.3	2.3	12.00	669,855.77	726,898.36	
5,550.0	8.68	269.78	5,549.7	1,415.6	0.0	-5.5	5.5	12.00	669,855.76	726,895.24	
5,575.0	11.68	269.78	5,574.3	1,440.2	0.0	-9.9	9.9	12.00	669,855.74	726,890.82	
5,600.0	14.68	269.78	5,598.7	1,464.6	-0.1	-15.6	15.6	12.00	669,855.72	726,885.12	
5,625.0	17.68	269.78	5,622.7	1,488.6	-0.1	-22.5	22.5	12.00	669,855.69	726,878.16	
5,650.0	20.68	269.78	5,646.3	1,512.2	-0.1	-30.8	30.8	12.00	669,855.66	726,869.95	
5,675.0	23.68	269.78	5,669.4	1,535.3	-0.2	-40.2	40.2	12.00	669,855.63	726,860.51	
5,700.0	26.68	269.78	5,692.1	1,558.0	-0.2	-50.8	50.8	12.00	669,855.59	726,849.88	
5,725.0	29.68	269.78	5,714.1	1,580.0	-0.2	-62.6	62.6	12.00	669,855.54	726,838.08	
5,750.0	32.68	269.78	5,735.5	1,601.4	-0.3	-75.6	75.6	12.00	669,855.49	726,825.14	
5,775.0	35.68	269.78	5,756.2	1,622.1	-0.3	-89.6	89.6	12.00	669,855.44	726,811.09	
5,800.0	38.68	269.78	5,776.1	1,642.0	-0.4	-104.7	104.7	12.00	669,855.38	726,795.99	
5,825.0	41.68	269.78	5,795.2	1,661.1	-0.5	-120.8	120.8	12.00	669,855.32	726,779.86	
5,850.0	44.68	269.78	5,813.4	1,679.3	-0.5	-137.9	137.9	12.00	669,855.25	726,762.76	
5,875.0	47.68	269.78	5,830.7	1,696.6	-0.6	-156.0	156.0	12.00	669,855.18	726,744.72	
5,900.0	50.68	269.78	5,847.1	1,713.0	-0.7	-174.9	174.9	12.00	669,855.11	726,725.81	
5,925.0	53.68	269.78	5,862.4	1,728.3	-0.7	-194.6	194.6	12.00	669,855.03	726,706.06	
5,950.0	56.68	269.78	5,876.7	1,742.6	-0.8	-215.2	215.2	12.00	669,854.96	726,685.54	
5,975.0	59.68	269.78	5,889.8	1,755.7	-0.9	-236.4	236.4	12.00	669,854.87	726,664.30	
6,000.0	62.68	269.78	5,901.9	1,767.8	-1.0	-258.3	258.3	12.00	669,854.79	726,642.40	
6,025.0	65.68	269.78	5,912.8	1,778.7	-1.1	-280.8	280.8	12.00	669,854.70	726,619.90	
6,050.0	68.68	269.78	5,922.5	1,788.4	-1.2	-303.8	303.8	12.00	669,854.62	726,596.86	
6,075.0	71.68	269.78	5,931.0	1,796.9	-1.3	-327.4	327.4	12.00	669,854.53	726,573.35	
6,100.0	74.68	269.78	5,938.2	1,804.1	-1.3	-351.3	351.3	12.00	669,854.43	726,549.42	



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Pathfinder Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Site:	BAE 14 Fed Com	MD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM-5000.1 Single-User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
6,125.0	77.68	269.78	5,944.2	1,810.1	-1.4	-375.6	375.6	12.00	669,854.34	726,525.15	
6,150.0	80.68	269.78	5,948.9	1,814.8	-1.5	-400.1	400.1	12.00	669,854.25	726,500.60	
6,175.0	83.68	269.78	5,952.3	1,818.2	-1.6	-424.9	424.9	12.00	669,854.15	726,475.83	
6,200.0	86.68	269.78	5,954.4	1,820.3	-1.7	-449.8	449.8	12.00	669,854.06	726,450.92	
6,225.0	89.68	269.78	5,955.2	1,821.1	-1.8	-474.8	474.8	12.00	669,853.96	726,425.94	
6,240.6	91.55	269.78	5,955.0	1,820.9	-1.9	-490.3	490.4	12.00	669,853.90	726,410.35	
6,300.0	91.55	269.78	5,953.4	1,819.3	-2.1	-549.7	549.7	0.00	669,853.67	726,350.96	
6,400.0	91.55	269.78	5,950.7	1,816.6	-2.5	-649.7	649.7	0.00	669,853.29	726,251.00	
6,500.0	91.55	269.78	5,948.0	1,813.9	-2.9	-749.7	749.7	0.00	669,852.91	726,151.04	
6,600.0	91.55	269.78	5,945.3	1,811.2	-3.3	-849.6	849.6	0.00	669,852.52	726,051.07	
6,700.0	91.55	269.78	5,942.6	1,808.5	-3.6	-949.6	949.6	0.00	669,852.14	725,951.11	
6,800.0	91.55	269.78	5,939.9	1,805.8	-4.0	-1,049.6	1,049.6	0.00	669,851.76	725,851.15	
6,900.0	91.55	269.78	5,937.2	1,803.1	-4.4	-1,149.5	1,149.5	0.00	669,851.38	725,751.19	
7,000.0	91.55	269.78	5,934.5	1,800.4	-4.8	-1,249.5	1,249.5	0.00	669,850.99	725,651.22	
7,100.0	91.55	269.78	5,931.8	1,797.7	-5.2	-1,349.4	1,349.5	0.00	669,850.61	725,551.26	
7,200.0	91.55	269.78	5,929.1	1,795.0	-5.6	-1,449.4	1,449.4	0.00	669,850.23	725,451.30	
7,300.0	91.55	269.78	5,926.4	1,792.3	-5.9	-1,549.4	1,549.4	0.00	669,849.84	725,351.33	
7,400.0	91.55	269.78	5,923.7	1,789.6	-6.3	-1,649.3	1,649.3	0.00	669,849.46	725,251.37	
7,500.0	91.55	269.78	5,921.0	1,786.9	-6.7	-1,749.3	1,749.3	0.00	669,849.08	725,151.41	
7,600.0	91.55	269.78	5,918.3	1,784.2	-7.1	-1,849.3	1,849.3	0.00	669,848.69	725,051.45	
7,700.0	91.55	269.78	5,915.6	1,781.5	-7.5	-1,949.2	1,949.2	0.00	669,848.31	724,951.48	
7,800.0	91.55	269.78	5,912.9	1,778.8	-7.9	-2,049.2	2,049.2	0.00	669,847.93	724,851.52	
7,900.0	91.55	269.78	5,910.2	1,776.1	-8.2	-2,149.1	2,149.2	0.00	669,847.54	724,751.56	
8,000.0	91.55	269.78	5,907.5	1,773.4	-8.6	-2,249.1	2,249.1	0.00	669,847.16	724,651.59	
8,100.0	91.55	269.78	5,904.8	1,770.7	-9.0	-2,349.1	2,349.1	0.00	669,846.78	724,551.63	
8,125.8	91.55	269.78	5,904.1	1,770.0	-9.1	-2,374.8	2,374.9	0.00	669,846.68	724,525.87	
Target Box											



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Lea County (NAD83)
Site: BAE 14 Fed Com
Well: #1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 18' @ 4134.1usft (Original Well Elev)
MD Reference: KB = 18' @ 4134.1usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,200.0	91.55	269.78	5,902.1	1,768.0	-9.4	-2,449.0	2,449.0	0.00	669,846.40	724,451.67
8,300.0	91.55	269.78	5,899.4	1,765.3	-9.8	-2,549.0	2,549.0	0.00	669,846.01	724,351.71
8,400.0	91.55	269.78	5,896.7	1,762.6	-10.2	-2,649.0	2,649.0	0.00	669,845.63	724,251.74
8,500.0	91.55	269.78	5,894.0	1,759.9	-10.5	-2,748.9	2,748.9	0.00	669,845.25	724,151.78
8,600.0	91.55	269.78	5,891.3	1,757.2	-10.9	-2,848.9	2,848.9	0.00	669,844.86	724,051.82
8,700.0	91.55	269.78	5,888.6	1,754.5	-11.3	-2,948.8	2,948.9	0.00	669,844.48	723,951.85
8,800.0	91.55	269.78	5,885.9	1,751.8	-11.7	-3,048.8	3,048.8	0.00	669,844.10	723,851.89
8,900.0	91.55	269.78	5,883.2	1,749.1	-12.1	-3,148.8	3,148.8	0.00	669,843.71	723,751.93
9,000.0	91.55	269.78	5,880.5	1,746.4	-12.4	-3,248.7	3,248.8	0.00	669,843.33	723,651.97
9,100.0	91.55	269.78	5,877.8	1,743.7	-12.8	-3,348.7	3,348.7	0.00	669,842.95	723,552.00
9,200.0	91.55	269.78	5,875.1	1,741.0	-13.2	-3,448.7	3,448.7	0.00	669,842.57	723,452.04
9,300.0	91.55	269.78	5,872.4	1,738.3	-13.6	-3,548.6	3,548.6	0.00	669,842.18	723,352.08
9,400.0	91.55	269.78	5,869.7	1,735.6	-14.0	-3,648.6	3,648.6	0.00	669,841.80	723,252.11
9,500.0	91.55	269.78	5,867.0	1,732.9	-14.4	-3,748.5	3,748.6	0.00	669,841.42	723,152.15
9,600.0	91.55	269.78	5,864.3	1,730.2	-14.7	-3,848.5	3,848.5	0.00	669,841.03	723,052.19
9,700.0	91.55	269.78	5,861.6	1,727.5	-15.1	-3,948.5	3,948.5	0.00	669,840.65	722,952.23
9,800.0	91.55	269.78	5,858.9	1,724.8	-15.5	-4,048.4	4,048.5	0.00	669,840.27	722,852.26
9,900.0	91.55	269.78	5,856.2	1,722.1	-15.9	-4,148.4	4,148.4	0.00	669,839.88	722,752.30
10,000.0	91.55	269.78	5,853.5	1,719.4	-16.3	-4,248.4	4,248.4	0.00	669,839.50	722,652.34
10,100.0	91.55	269.78	5,850.8	1,716.7	-16.7	-4,348.3	4,348.4	0.00	669,839.12	722,552.37
10,200.0	91.55	269.78	5,848.1	1,714.0	-17.0	-4,448.3	4,448.3	0.00	669,838.73	722,452.41
10,300.0	91.55	269.78	5,845.4	1,711.3	-17.4	-4,548.3	4,548.3	0.00	669,838.35	722,352.45
10,400.0	91.55	269.78	5,842.7	1,708.6	-17.8	-4,648.2	4,648.2	0.00	669,837.97	722,252.49
10,501.5	91.55	269.78	5,840.0	1,705.9	-18.2	-4,749.7	4,749.7	0.00	669,837.58	722,151.03

BAE 14 Fed Com #1H PBHL



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Lea County (NAD83)	TVD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Site:	BAE 14 Fed Com	MD Reference:	KB = 18' @ 4134.1usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Checked By: _____ Approved By: _____ Date: _____

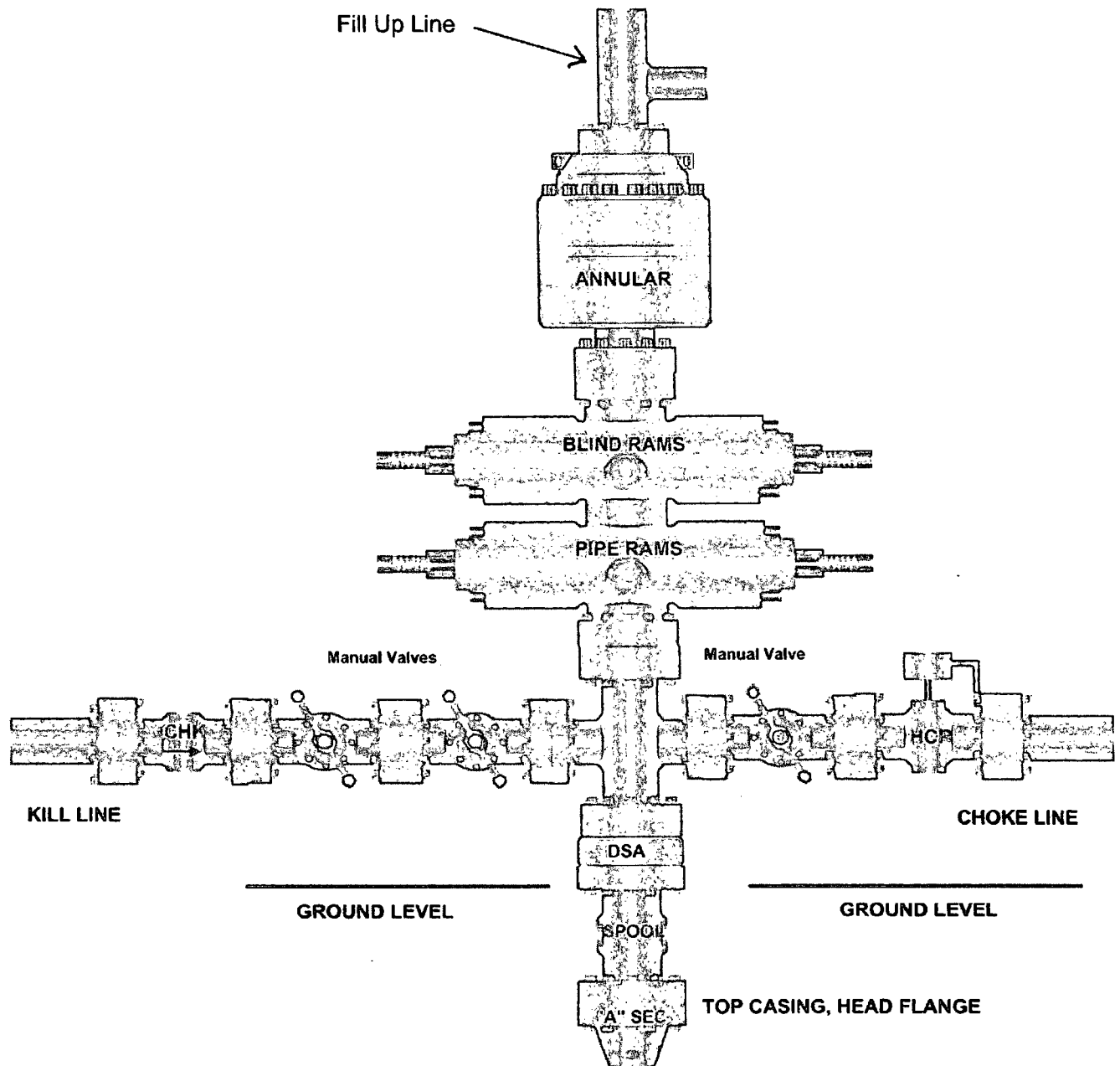
NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP
BAE 14 Fed Com 1H

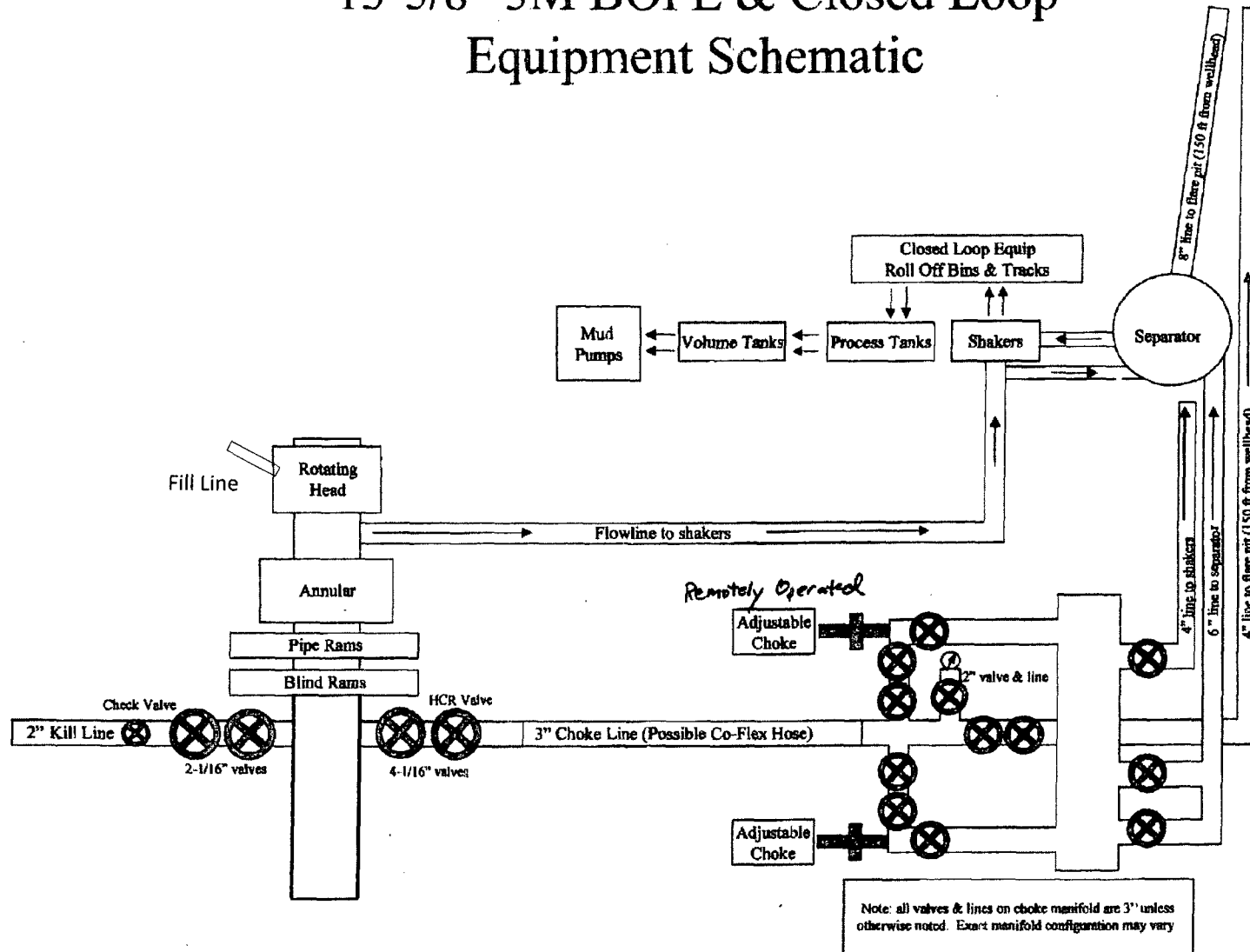
Surface Location: 660 FNL & 200 FEL, Unit A, Sec 14 T17S R32E, Lea, NM
Bottom Hole Location: 660 FNL & 330 FWL, Unit D, Sec 14 T17S R32E, Lea, NM

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 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





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.

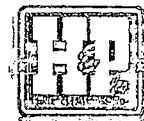
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

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

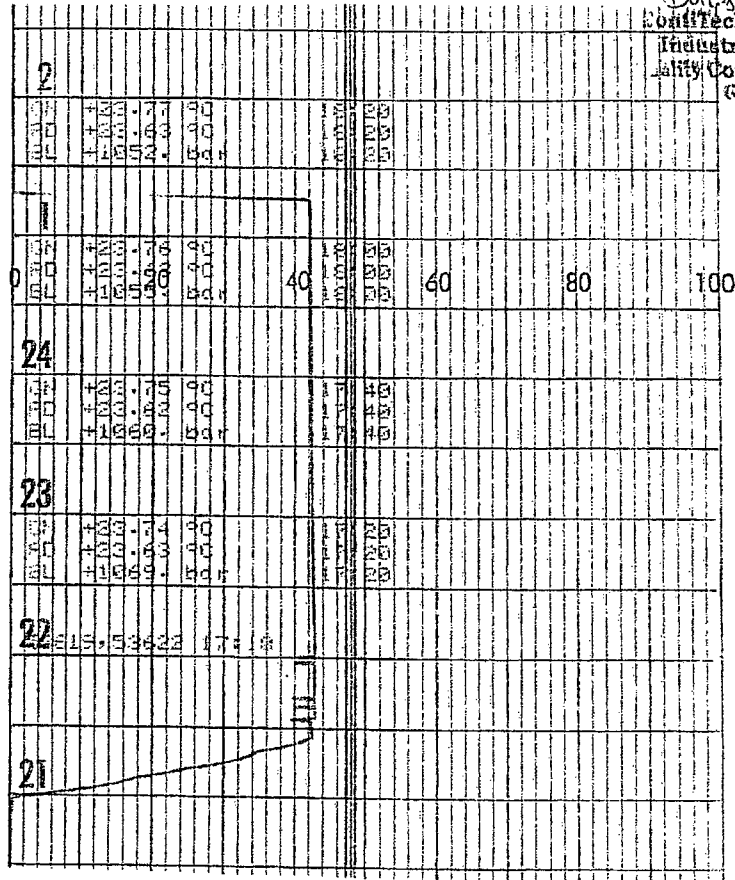
ContiTech Beattie Corp,
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Houston, TX 77041
Phone: +1 (832) 327-0141
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QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1713	
PURCHASER: ContiTech Beattie Co.			P.O. N°: 002808		
CONTITECH 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: 25. August. 2008		Inspector		Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept. <i>[Signature]</i>	

H&P 416

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Signature
 Confitech Rubber
 Industrial Kft.
 Quality Control Dept.
 (2)

EXHIBIT D

H&P Flex Rig Location Layout

2 Well Pad

