

OCB Artesia

Form 3160-3
(February 2005)

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 90534
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)-552-7802

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface NWNE - 250' FNL & 1670' FEL Lot B
At proposed prod. zone SWSE 330' FSL & 1870' FEL Lot O

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

8. Lease Name and Well No.
Beetle Juice 19 Federal 2H

9. API Well No.
30-015-38989
10. Field and Pool, or Exploratory
Hackberry; Bone Spring, NW

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 19-T19S-R31E

14. Distance in miles and direction from nearest town or post office*
Approximately 10 miles south of Loco Hills, NM.

12. County or Parish
Eddy
13. State
NM

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any) 250'

16. No. of acres in lease
632.68

17. Spacing Unit dedicated to this well
160

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. SL: 917' BHL: 605'

19. Proposed Depth
TVD 8816' MD 13396'
Max TVD-9175' PH

20. BLM/BIA Bond No. on file
PH: 9175' CO-1104

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3397.4' GL

22. Approximate date work will start*
02/01/2011

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:

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

25. Signature
Title
Sr. Staff Engineering Technician

Name (Printed/Typed)
Stephanie A. Ysasaga

Date
01/15/2010

Approved by (Signature) /s/ Don Peterson

Name (Printed/Typed)

Date
APR - 8 2011

Title
FIELD MANAGER

Office
CARLSBAD FIELD OFFICE

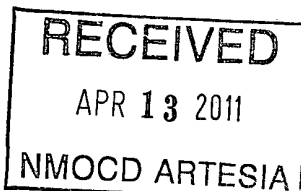
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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)

CAPITAN CONTROLLED WATER BASIN



SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DRILLING PROGRAM

Devon Energy Production Company, LP

Beetle Juice 19 Federal 2H

Surface Location: 250' FNL & 1670' FEL, Unit B, Sec 19 T19S R31E, Eddy, NM

Bottom hole Location: 330' FSL & 1870' FEL, Unit O, Sec 19 T19S R31E, Eddy, NM

1. Geologic Name of Surface Formation

- a. Permian

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

a. Quaternary Alluvium	120'	Fresh Water
b. Rustler	480'	Barren
c. Salado	547'	Barren
d. Tansil Dolomite	1918'	Barren
e. Yates	2166'	Oil
f. Seven Rivers	2348'	Oil
g. Capitan	2448'	Oil
h. Queen	3270'	Oil
i. Delaware	4423'	Oil
j. Bone Spring	6475'	Oil
k. 1 st Bone Spring Ss	7810'	Oil
l. 2 nd Bone Spring Lime	8165'	Oil
m. 2 nd Bone Spring Ss	8640'	Oil
n. 2 nd Bone Spring Middle Ss	8753'	Oil
o. 2 nd Bone Spring Middle Ss Base	8863'	Oil
p. 3 rd Bone Springs Lm	9052'	Oil
q. PBTD (Pilot Hole)	9127'	Oil
r. Total Depth	TVD 8816' MD 13396'	

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 550' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 3500' and circulating cement to surface. The Delaware 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>
SEC - 17 1/2"	0'-550' 40'	13 3/8"	0'-550'	48#	STC	H-40
COA 12 1/4"	550'-3500'	9 5/8"	0'-3500'	36#	LTC	J-55
8 3/4"	3500'-8200'	5 1/2"	0'-8200'	17#	LTC	P-110HC
8 3/4"	8200'- 13396'	5 1/2"	8200-13396'	17#	BTC	P-110HC

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design</u>	<u>Burst Design</u>	<u>Tension Design</u>
	<u>Factor</u>	<u>Factor</u>	<u>Factor</u>
13 3/8"	2.99	6.72	12.20
9 5/8"	1.23	2.15	2.74
5 1/2" LTC	1.64	2.02	1.55
5 1/2" BTC	1.84	2.27	5.22

4. *see CPA***Cement Program: (Note: All cement volumes are calculated with 25% excesses.)**

- a. 13 3/8" Conductor **Lead:** 250 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
- 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.. **TOC @ surface.**
- b. 9 5/8" Intermediate **Lead:** 900 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:** 1.96 cf/sk
- Tail:** 300 sacks Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 52.7% Water, 14.8 ppg. **Yield:** 1.34 cf/sk. **TOC @ surface.**
- c. 5 1/2" Production **1st Stage**
- Lead:** 900 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:** 2.00 cf/sk
- Tail:** 1,400 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 ~4,500 ft**
- 2nd Stage**
- Lead:** 250 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg. **Yield:** 2.89 cf/sk

Tail: 150 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:** 1.37cf/sk. **TOC @ 3,000-ft** See COA

8-3/4" Pilot Hole Plug 700 sxs Class H, 18.0 ppg, 0.89 cf/sk
 Top of Plug 8,416' (KOP)
 Bottom of Plug 9,175' (Pilot Hole TD)

TOC for All Strings:

Surface: 0'
 Intermediate: 0'
 Production: 3,000'

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

5. Pressure Control Equipment:

BOP DESIGN: The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Triple 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.

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Triple 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.

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.

See COA A flexible line with flanged ends may be used between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 550' 400'	8.4-9.0	30-34	NC	Fresh Water
550' - 3500'	9.8-10.0	28-32	NC	Brine
3500' - 13396'	8.6-9.0	28-32	NC-12	Fresh Water

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.

- 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.

See COA

8. 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.

9. 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 3600 psi and Estimated BHT 145°. No H2S is anticipated to be encountered.

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.

11. Depending on rig availability, Devon may set the surface casing using an Ashton Oilfield Services rig.

- a. The rig plat is attached (if applicable). 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.
- b. 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.

See
COA



A Schlumberger Company

Devon Energy Production Company, L.P.

Eddy County

Beetlejuice 19 Federal

2H

OH

Plan: Plan #1

Pathfinder X & Y Planning Report

12 January, 2011



A Schlumberger Company



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 2H
TVD Reference: McVay #4L @ 3417.40usft (Original Well Elev)
MD Reference: McVay #4L @ 3417.40usft (Original Well Elev)
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	Beetlejuice 19 Federal		
Site Position:		Northing:	601,343.440 usft
From:	Map	Easting:	673,026.540 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 39' 8.680 N
		Longitude:	103° 54' 19.648 W
		Grid Convergence:	0.23 °

Well	2H					
Well Position	+N-S	0.00 usft	Northing:	601,343.440 usft	Latitude:	32° 39' 8.680 N
	+E-W	0.00 usft	Easting:	673,026.540 usft	Longitude:	103° 54' 19.648 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,397.40 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	01/12/11	7.81	60.56	48,915

Design	Plan #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	182.02

Survey Tool Program	Date	01/12/11		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	13,395.62	Plan #1 (OH)	MWD	MWD - Standard



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
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Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well 2H

McVay #4L @ 3417.40usft (Original Well Elev)

McVay #4L @ 3417.40usft (Original Well Elev)

Grid.

Minimum Curvature

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)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	3,417.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
100.00	0.00	0.00	100.00	3,317.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
200.00	0.00	0.00	200.00	3,217.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
300.00	0.00	0.00	300.00	3,117.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
400.00	0.00	0.00	400.00	3,017.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
500.00	0.00	0.00	500.00	2,917.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
600.00	0.00	0.00	600.00	2,817.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
700.00	0.00	0.00	700.00	2,717.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
800.00	0.00	0.00	800.00	2,617.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
900.00	0.00	0.00	900.00	2,517.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,000.00	0.00	0.00	1,000.00	2,417.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,100.00	0.00	0.00	1,100.00	2,317.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,200.00	0.00	0.00	1,200.00	2,217.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,300.00	0.00	0.00	1,300.00	2,117.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,400.00	0.00	0.00	1,400.00	2,017.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,500.00	0.00	0.00	1,500.00	1,917.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,600.00	0.00	0.00	1,600.00	1,817.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,700.00	0.00	0.00	1,700.00	1,717.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,800.00	0.00	0.00	1,800.00	1,617.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
1,900.00	0.00	0.00	1,900.00	1,517.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,000.00	0.00	0.00	2,000.00	1,417.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,100.00	0.00	0.00	2,100.00	1,317.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,200.00	0.00	0.00	2,200.00	1,217.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,300.00	0.00	0.00	2,300.00	1,117.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,400.00	0.00	0.00	2,400.00	1,017.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,500.00	0.00	0.00	2,500.00	917.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,600.00	0.00	0.00	2,600.00	817.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetiejuice 19 Federal
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
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Survey Calculation Method:
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McVay #4L @ 3417.40usft (Original Well Elev)
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Minimum Curvature
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2,700.00	0.00	0.00	2,700.00	717.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,800.00	0.00	0.00	2,800.00	617.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
2,900.00	0.00	0.00	2,900.00	517.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,000.00	0.00	0.00	3,000.00	417.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,100.00	0.00	0.00	3,100.00	317.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,200.00	0.00	0.00	3,200.00	217.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,300.00	0.00	0.00	3,300.00	117.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,400.00	0.00	0.00	3,400.00	17.40	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,500.00	0.00	0.00	3,500.00	-82.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,600.00	0.00	0.00	3,600.00	-182.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,700.00	0.00	0.00	3,700.00	-282.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,800.00	0.00	0.00	3,800.00	-382.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
3,900.00	0.00	0.00	3,900.00	-482.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,000.00	0.00	0.00	4,000.00	-582.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,100.00	0.00	0.00	4,100.00	-682.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,200.00	0.00	0.00	4,200.00	-782.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,300.00	0.00	0.00	4,300.00	-882.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,400.00	0.00	0.00	4,400.00	-982.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,500.00	0.00	0.00	4,500.00	-1,082.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,600.00	0.00	0.00	4,600.00	-1,182.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,700.00	0.00	0.00	4,700.00	-1,282.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,800.00	0.00	0.00	4,800.00	-1,382.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
4,900.00	0.00	0.00	4,900.00	-1,482.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,000.00	0.00	0.00	5,000.00	-1,582.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,100.00	0.00	0.00	5,100.00	-1,682.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,200.00	0.00	0.00	5,200.00	-1,782.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,300.00	0.00	0.00	5,300.00	-1,882.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 2H
TVD Reference: McVay #4L @ 3417.40usft (Original Well Elev)
MD Reference: McVay #4L @ 3417.40usft (Original Well Elev)
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)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
5,400.00	0.00	0.00	5,400.00	-1,982.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,500.00	0.00	0.00	5,500.00	-2,082.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,600.00	0.00	0.00	5,600.00	-2,182.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,700.00	0.00	0.00	5,700.00	-2,282.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,800.00	0.00	0.00	5,800.00	-2,382.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
5,900.00	0.00	0.00	5,900.00	-2,482.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,000.00	0.00	0.00	6,000.00	-2,582.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,100.00	0.00	0.00	6,100.00	-2,682.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,200.00	0.00	0.00	6,200.00	-2,782.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,300.00	0.00	0.00	6,300.00	-2,882.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,400.00	0.00	0.00	6,400.00	-2,982.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,500.00	0.00	0.00	6,500.00	-3,082.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,600.00	0.00	0.00	6,600.00	-3,182.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,700.00	0.00	0.00	6,700.00	-3,282.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,800.00	0.00	0.00	6,800.00	-3,382.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
6,900.00	0.00	0.00	6,900.00	-3,482.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,000.00	0.00	0.00	7,000.00	-3,582.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,100.00	0.00	0.00	7,100.00	-3,682.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,200.00	0.00	0.00	7,200.00	-3,782.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,300.00	0.00	0.00	7,300.00	-3,882.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,400.00	0.00	0.00	7,400.00	-3,982.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,500.00	0.00	0.00	7,500.00	-4,082.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,600.00	0.00	0.00	7,600.00	-4,182.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,700.00	0.00	0.00	7,700.00	-4,282.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,800.00	0.00	0.00	7,800.00	-4,382.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
7,900.00	0.00	0.00	7,900.00	-4,482.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
8,000.00	0.00	0.00	8,000.00	-4,582.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 2H
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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)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,100.00	0.00	0.00	8,100.00	-4,682.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
8,200.00	0.00	0.00	8,200.00	-4,782.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
8,300.00	0.00	0.00	8,300.00	-4,882.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
8,400.00	0.00	0.00	8,400.00	-4,982.60	0.00	0.00	0.00	0.00	601,343.44	673,026.54
8,416.50	0.00	0.00	8,416.50	-4,999.10	0.00	0.00	0.00	0.00	601,343.44	673,026.54
8,425.00	1.02	182.02	8,425.00	-5,007.60	-0.08	0.00	0.08	12.00	601,343.36	673,026.54
8,450.00	4.02	182.02	8,449.97	-5,032.57	-1.17	-0.04	1.17	12.00	601,342.27	673,026.50
8,475.00	7.02	182.02	8,474.85	-5,057.45	-3.58	-0.13	3.58	12.00	601,339.86	673,026.41
8,500.00	10.02	182.02	8,499.58	-5,082.18	-7.28	-0.26	7.28	12.00	601,336.16	673,026.28
8,525.00	13.02	182.02	8,524.07	-5,106.67	-12.26	-0.43	12.27	12.00	601,331.18	673,026.11
8,550.00	16.02	182.02	8,548.27	-5,130.87	-18.53	-0.65	18.54	12.00	601,324.91	673,025.89
8,575.00	19.02	182.02	8,572.11	-5,154.71	-26.04	-0.92	26.06	12.00	601,317.40	673,025.62
8,600.00	22.01	182.02	8,595.52	-5,178.12	-34.80	-1.23	34.82	12.00	601,308.64	673,025.31
8,625.00	25.01	182.02	8,618.44	-5,201.04	-44.77	-1.58	44.79	12.00	601,298.67	673,024.96
8,650.00	28.01	182.02	8,640.81	-5,223.41	-55.92	-1.97	55.95	12.00	601,287.52	673,024.57
8,675.00	31.01	182.02	8,662.56	-5,245.16	-68.22	-2.41	68.27	12.00	601,275.22	673,024.13
8,700.00	34.01	182.02	8,683.64	-5,266.24	-81.65	-2.88	81.70	12.00	601,261.79	673,023.66
8,725.00	37.01	182.02	8,703.99	-5,286.59	-96.16	-3.39	96.22	12.00	601,247.28	673,023.15
8,750.00	40.01	182.02	8,723.55	-5,306.15	-111.72	-3.94	111.79	12.00	601,231.72	673,022.60
8,775.00	43.01	182.02	8,742.27	-5,324.87	-128.27	-4.52	128.35	12.00	601,215.17	673,022.02
8,800.00	46.01	182.02	8,760.09	-5,342.69	-145.79	-5.14	145.88	12.00	601,197.65	673,021.40
8,825.00	49.01	182.02	8,776.98	-5,359.58	-164.21	-5.79	164.31	12.00	601,179.23	673,020.75
8,850.00	52.01	182.02	8,792.88	-5,375.48	-183.49	-6.47	183.60	12.00	601,159.95	673,020.07
8,875.00	55.01	182.02	8,807.74	-5,390.34	-203.57	-7.18	203.70	12.00	601,139.87	673,019.36
8,900.00	58.01	182.02	8,821.54	-5,404.14	-224.40	-7.91	224.54	12.00	601,119.04	673,018.63
8,925.00	61.00	182.02	8,834.22	-5,416.82	-245.93	-8.67	246.08	12.00	601,097.51	673,017.87
8,950.00	64.00	182.02	8,845.76	-5,428.36	-268.09	-9.46	268.26	12.00	601,075.35	673,017.08



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 2H
TVD Reference: McVay #4L @ 3417.40usft (Original Well Elev)
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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)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,975.00	67.00	182.02	8,856.13	-5,438.73	-290.82	-10.26	291.00	12.00	601,052.62	673,016.28
9,000.00	70.00	182.02	8,865.29	-5,447.89	-314.07	-11.08	314.26	12.00	601,029.37	673,015.46
9,025.00	73.00	182.02	8,873.22	-5,455.82	-337.76	-11.91	337.97	12.00	601,005.68	673,014.63
9,050.00	76.00	182.02	8,879.90	-5,462.50	-361.83	-12.76	362.05	12.00	600,981.61	673,013.78
9,075.00	79.00	182.02	8,885.31	-5,467.91	-386.22	-13.62	386.46	12.00	600,957.22	673,012.92
9,100.00	82.00	182.02	8,889.44	-5,472.04	-410.86	-14.49	411.11	12.00	600,932.58	673,012.05
9,125.00	85.00	182.02	8,892.27	-5,474.87	-435.68	-15.37	435.95	12.00	600,907.76	673,011.17
9,150.00	88.00	182.02	8,893.79	-5,476.39	-460.61	-16.25	460.90	12.00	600,882.83	673,010.29
9,175.60	91.07	182.02	8,894.00	-5,476.60	-486.20	-17.15	486.50	12.00	600,857.24	673,009.39
9,200.00	91.07	182.02	8,893.54	-5,476.14	-510.57	-18.01	510.89	0.00	600,832.87	673,008.53
9,300.00	91.07	182.02	8,891.68	-5,474.28	-610.50	-21.53	610.88	0.00	600,732.94	673,005.01
9,400.00	91.07	182.02	8,889.81	-5,472.41	-710.42	-25.06	710.86	0.00	600,633.02	673,001.48
9,500.00	91.07	182.02	8,887.94	-5,470.54	-810.34	-28.58	810.84	0.00	600,533.10	672,997.96
9,600.00	91.07	182.02	8,886.07	-5,468.67	-910.26	-32.10	910.82	0.00	600,433.18	672,994.44
9,700.00	91.07	182.02	8,884.21	-5,466.81	-1,010.18	-35.63	1,010.81	0.00	600,333.26	672,990.91
9,800.00	91.07	182.02	8,882.34	-5,464.94	-1,110.10	-39.15	1,110.79	0.00	600,233.34	672,987.39
9,900.00	91.07	182.02	8,880.47	-5,463.07	-1,210.02	-42.68	1,210.77	0.00	600,133.42	672,983.86
10,000.00	91.07	182.02	8,878.61	-5,461.21	-1,309.94	-46.20	1,310.75	0.00	600,033.50	672,980.34
10,100.00	91.07	182.02	8,876.74	-5,459.34	-1,409.86	-49.73	1,410.74	0.00	599,933.58	672,976.81
10,200.00	91.07	182.02	8,874.87	-5,457.47	-1,509.78	-53.25	1,510.72	0.00	599,833.66	672,973.29
10,300.00	91.07	182.02	8,873.00	-5,455.60	-1,609.70	-56.77	1,610.70	0.00	599,733.74	672,969.77
10,400.00	91.07	182.02	8,871.14	-5,453.74	-1,709.62	-60.30	1,710.68	0.00	599,633.82	672,966.24
10,500.00	91.07	182.02	8,869.27	-5,451.87	-1,809.54	-63.82	1,810.67	0.00	599,533.90	672,962.72
10,600.00	91.07	182.02	8,867.40	-5,450.00	-1,909.46	-67.35	1,910.65	0.00	599,433.98	672,959.19
10,700.00	91.07	182.02	8,865.53	-5,448.13	-2,009.38	-70.87	2,010.63	0.00	599,334.06	672,955.67
10,800.00	91.07	182.02	8,863.67	-5,446.27	-2,109.30	-74.40	2,110.61	0.00	599,234.14	672,952.14
10,900.00	91.07	182.02	8,861.80	-5,444.40	-2,209.22	-77.92	2,210.60	0.00	599,134.22	672,948.62



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 2H
McVay #4L @ 3417.40usft (Original Well Elev)
McVay #4L @ 3417.40usft (Original Well Elev)
Grid
Minimum Curvature
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)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
11,000.00	91.07	182.02	8,859.93	-5,442.53	-2,309.14	-81.44	2,310.58	0.00	599,034.30	672,945.10
11,100.00	91.07	182.02	8,858.06	-5,440.66	-2,409.06	-84.97	2,410.56	0.00	598,934.38	672,941.57
11,200.00	91.07	182.02	8,856.20	-5,438.80	-2,508.98	-88.49	2,510.54	0.00	598,834.46	672,938.05
11,300.00	91.07	182.02	8,854.33	-5,436.93	-2,608.90	-92.02	2,610.53	0.00	598,734.54	672,934.52
11,400.00	91.07	182.02	8,852.46	-5,435.06	-2,708.82	-95.54	2,710.51	0.00	598,634.62	672,931.00
11,500.00	91.07	182.02	8,850.59	-5,433.19	-2,808.74	-99.07	2,810.49	0.00	598,534.70	672,927.47
11,600.00	91.07	182.02	8,848.73	-5,431.33	-2,908.67	-102.59	2,910.47	0.00	598,434.77	672,923.95
11,700.00	91.07	182.02	8,846.86	-5,429.46	-3,008.59	-106.11	3,010.46	0.00	598,334.85	672,920.43
11,800.00	91.07	182.02	8,844.99	-5,427.59	-3,108.51	-109.64	3,110.44	0.00	598,234.93	672,916.90
11,900.00	91.07	182.02	8,843.12	-5,425.72	-3,208.43	-113.16	3,210.42	0.00	598,135.01	672,913.38
12,000.00	91.07	182.02	8,841.26	-5,423.86	-3,308.35	-116.69	3,310.40	0.00	598,035.09	672,909.85
12,100.00	91.07	182.02	8,839.39	-5,421.99	-3,408.27	-120.21	3,410.39	0.00	597,935.17	672,906.33
12,200.00	91.07	182.02	8,837.52	-5,420.12	-3,508.19	-123.73	3,510.37	0.00	597,835.25	672,902.81
12,300.00	91.07	182.02	8,835.66	-5,418.26	-3,608.11	-127.26	3,610.35	0.00	597,735.33	672,899.28
12,400.00	91.07	182.02	8,833.79	-5,416.39	-3,708.03	-130.78	3,710.33	0.00	597,635.41	672,895.76
12,500.00	91.07	182.02	8,831.92	-5,414.52	-3,807.95	-134.31	3,810.32	0.00	597,535.49	672,892.23
12,600.00	91.07	182.02	8,830.05	-5,412.65	-3,907.87	-137.83	3,910.30	0.00	597,435.57	672,888.71
12,700.00	91.07	182.02	8,828.19	-5,410.79	-4,007.79	-141.36	4,010.28	0.00	597,335.65	672,885.18
12,800.00	91.07	182.02	8,826.32	-5,408.92	-4,107.71	-144.88	4,110.26	0.00	597,235.73	672,881.66
12,900.00	91.07	182.02	8,824.45	-5,407.05	-4,207.63	-148.40	4,210.25	0.00	597,135.81	672,878.14
13,000.00	91.07	182.02	8,822.58	-5,405.18	-4,307.55	-151.93	4,310.23	0.00	597,035.89	672,874.61
13,100.00	91.07	182.02	8,820.72	-5,403.32	-4,407.47	-155.45	4,410.21	0.00	596,935.97	672,871.09
13,200.00	91.07	182.02	8,818.85	-5,401.45	-4,507.39	-158.98	4,510.19	0.00	596,836.05	672,867.56
13,300.00	91.07	182.02	8,816.98	-5,399.58	-4,607.31	-162.50	4,610.18	0.00	596,736.13	672,864.04
13,395.69	91.07	182.02	8,815.19	-5,397.79	-4,702.92	-165.87	4,705.85	0.00	596,640.52	672,860.67

PBHL (BJ19)



A Schlumberger Company

Pathfinder

Pathfinder X & Y Planning Report



A Schlumberger Company

Company: Devon Energy Production Company, L.P.
Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well 2H
McVay #4L @ 3417.40usft (Original Well Elev)
McVay #4L @ 3417.40usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Checked By: _____

Approved By: _____

Date: _____



Project: Eddy County
Site: Beetlejuice 19 Federal
Well: 2H
Wellbore: OH
Plan: Plan #1 (2H/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: -0.23°
Magnetic North: 7.58°

Magnetic Field
Strength: 48914.5snT
Dip Angle: 60.56°
Date: 01/12/2011
Model: IGRF200510

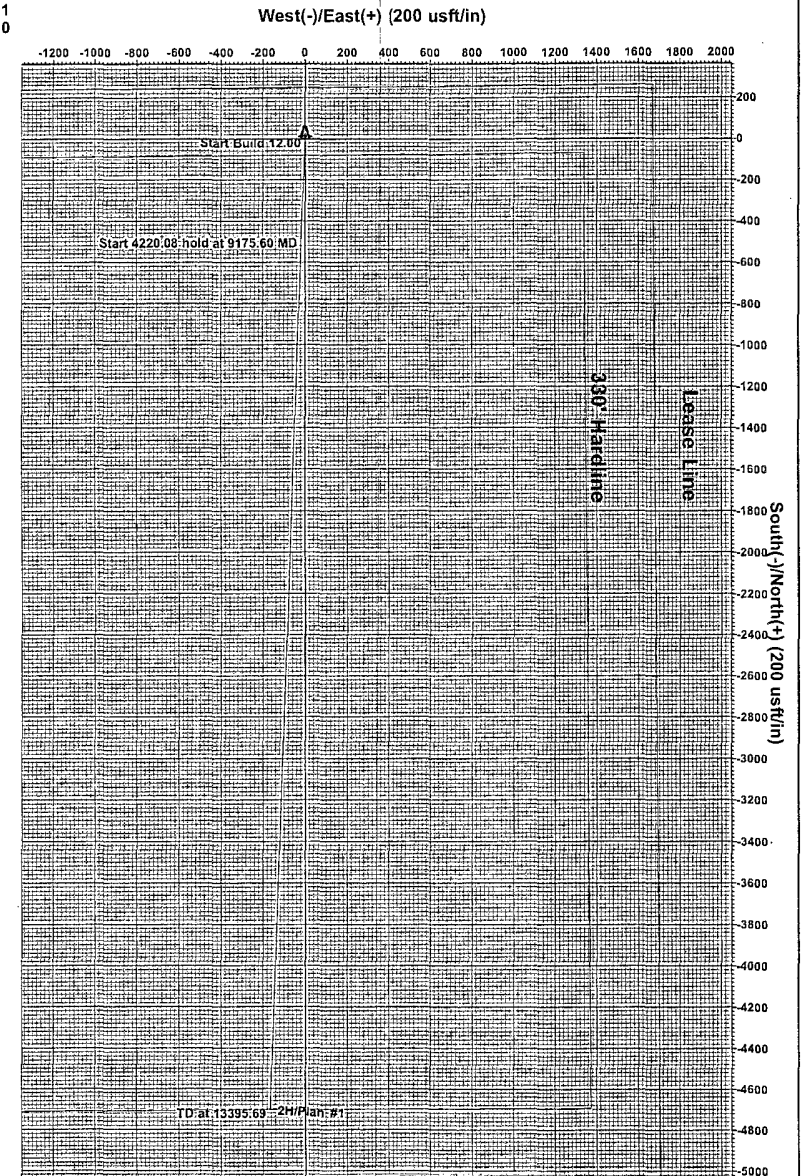
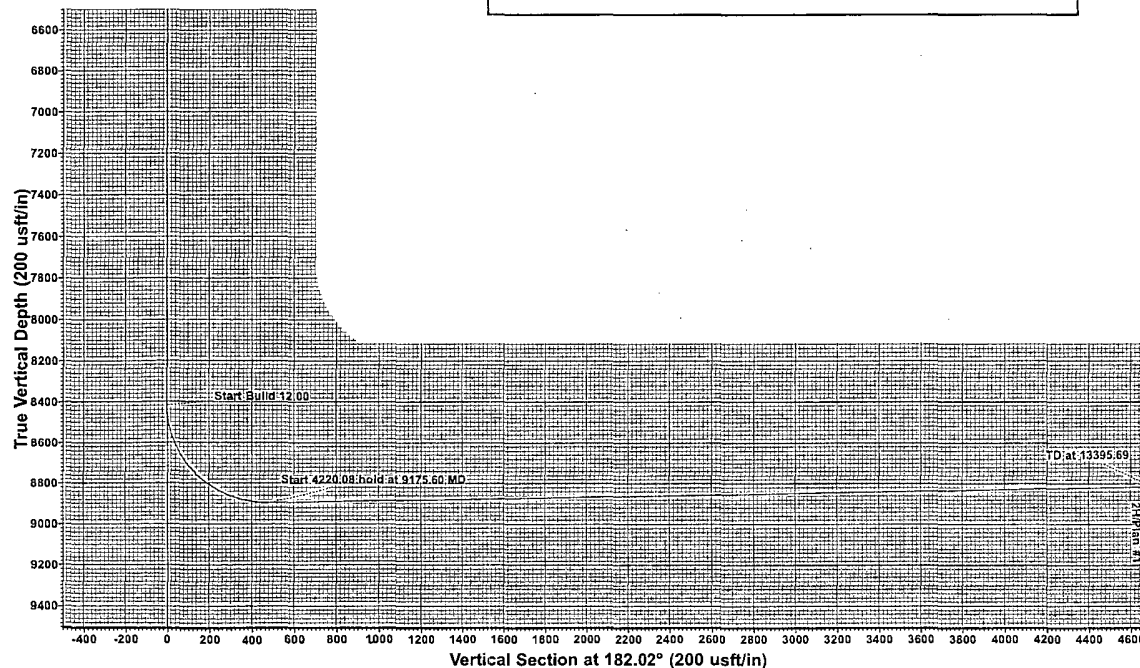


A Schlumberger Company

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8416.50	0.00	0.00	8416.50	0.00	0.00	0.00	0.00	0.00	
9175.60	91.07	182.02	8894.00	-486.20	-17.15	12.00	182.02	486.50	
13395.69	91.07	182.02	8815.19	-4702.92	-165.87	0.00	0.00	4705.85	PBHL (BJ19)

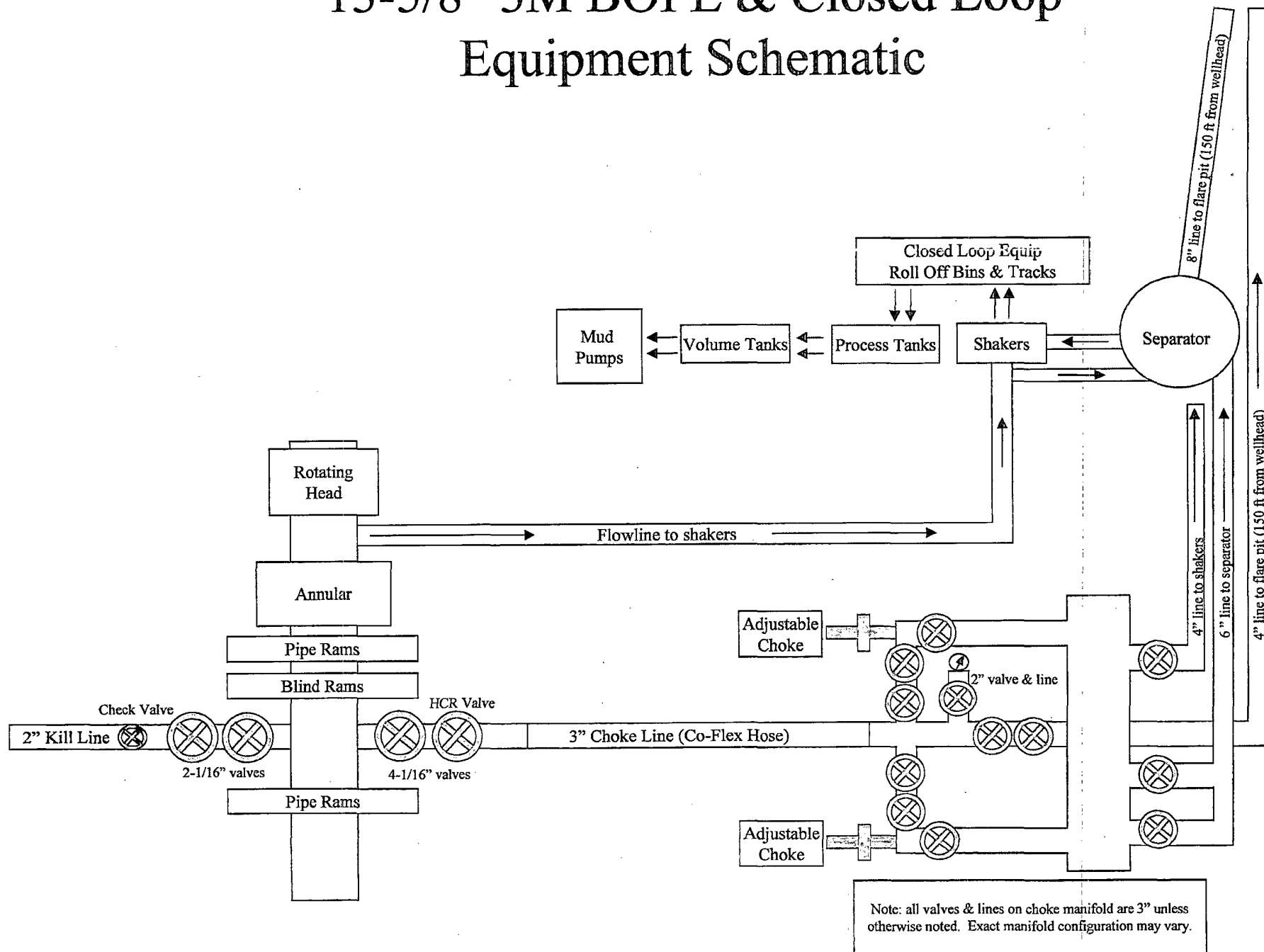
WELL DETAILS: 2H						
Ground Elevation: 3397.40						
RKB Elevation: McVay #4L @ 3417.40usft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	601343.440	673026.540	32° 39' 8.680 N	103° 54' 19.648 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (BJ19)	8815.00	-4702.91	-166.27	596640.530	672860.270	Point



Plan: Plan #1 (2H/OH)
Created By: Nate Bingham Date: 11:49, January 12 2011
Checked: _____ Date: _____

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



Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP

Beetle Juice 19 Federal 2H

Surface Location: 250' FNL & 1670' FEL, Unit B, Sec 19 T19S R31E, Eddy, NM
Bottom hole Location: 330' FSL & 1870' FEL, Unit O, Sec 19 T19S 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 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.

Hydrostatic Test Certificate

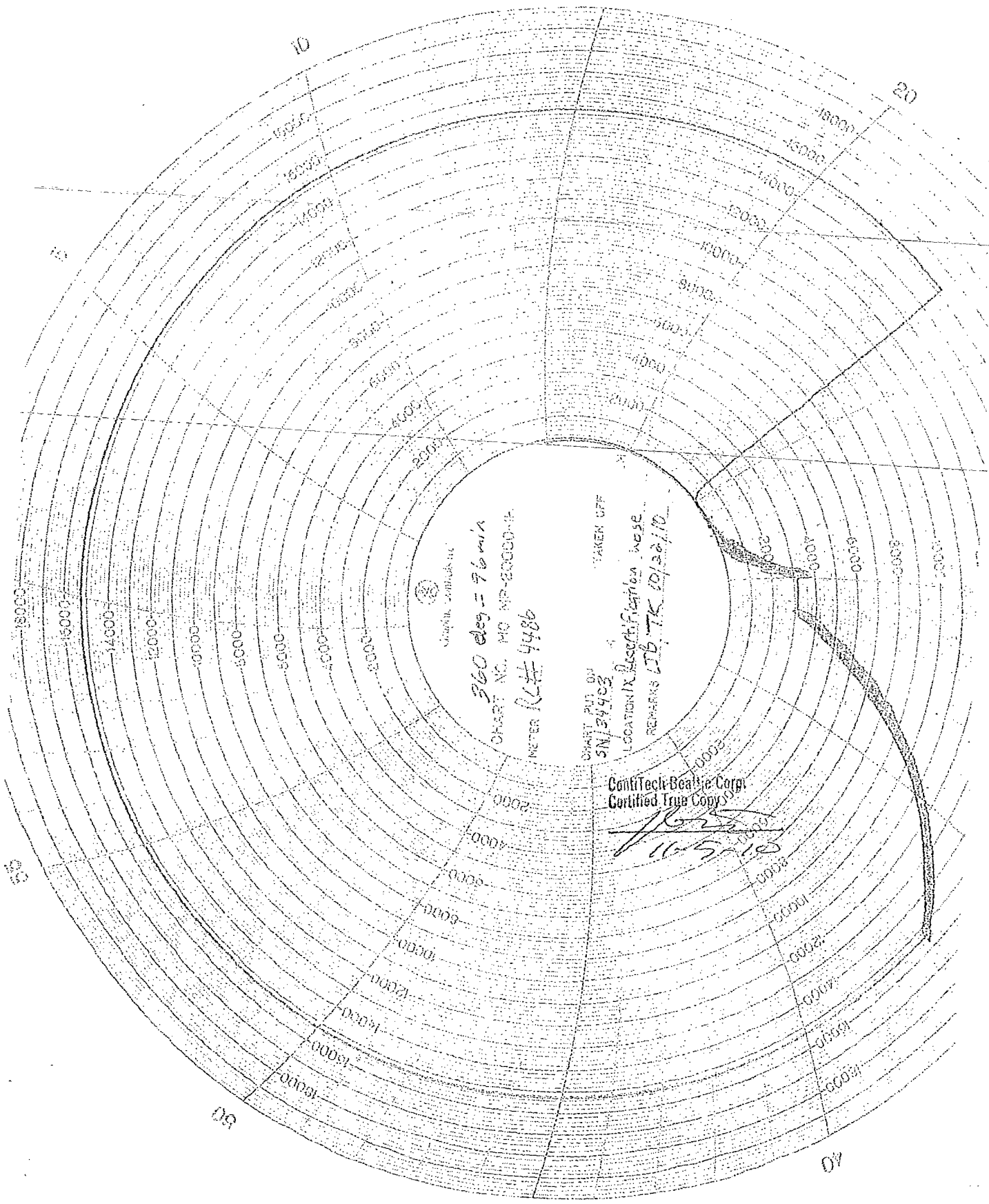


Certificate Number: 4520	PBC No: 10321	Customer Name & Address
Customer Purchase Order No: RIG 300		HELMERICH & PAYNE INTL DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		
Test Centre Address	Accepted by ContiTech Beattie Inspection	Accepted by Client Inspection
ContiTech Beattie Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Josh Sims Date: 10/27/10	

We certify that the goods detailed hereon have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industrial standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation.

These goods were made in the United States of America.

Item	Part No	Description	Qty	Serial Number	As-Built Length (m)	Work Press.	Test Press.	Test Time (minutes)
1		3" ID 10K Choke & Kill Hose x 35ft OAL End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange Working Pressure: 10,000psi Test Pressure: 15,000psi Serial#: 49106	1	49106		10 kpsi	15 kpsi	60



360 deg = 76 min
CHART NO. MO NP-20000-14
METER RLT# 4486

TAKEN OFF
SN 134903
LOCATION IN Research Flight 101 base
REMARKS LTB TK 10/20/10

ContiTech-Beattie Corp.
Certified True Copy

[Signature]
11-5-10



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

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