	RE	CEIVE	D	
Form 3160-3 (February 2005) UNITED STATES DEPARTMENT OF THE		Y 22 2012	OMB No Expires M: 5 Lease Serial No.	PPROVED 1004-0137 arch 31, 2007 / 2 - 5 3 5
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO		ſER	6 If Indian, Allotee	& NMNM-101113 BH or Tribe Name
Ia. Type of work. 🔽 DRILL	ER	<u> </u>	7 If Unit or CA Agree	ement, Name and No.
lb. Type of Well. 🔽 Oil Well 🗌 Gas Well 🗌 Other	Single Zone	Multiple Zon	8. Lease Name and W Bellatrix 28	Vell No. Fed Com 3H
2. Name of Operator Devon Energy Production Co., LP	٢	61377	9. API Well No. 30-01	5-40333
3a Address 20 North Broadway OKC, OK 73102	3b. Phone No. (include a (405)-552-7802	rea code)	10. Field and Pool, or E Gatuna Canyo	xploratory on; Bone Spring 294
4. Location of Well (Report location clearly and in accordance with at At surface At surface NESE At proposed prod. zone NESE 2280' FSL & 340' FEL Lot	t I of Sec 29		11 Sec , T. R M or Bl Sec 29-T1	k and Survey or Area
14 Distance in miles and direction from nearest town or post office* Approximately 14 miles southeast 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) 200'	16 No of acres in leas		bacing Unit dedicated to this w 160 acres	ell
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft See Plat	19 Proposed Depth		LM/BIA Bond No. on file H: 9470' CO-1104	NMBOOOSOL
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3482.3' GL	22 Approximate date v 03/15/2		23. Estimated duration 45 days	
	24. Attachments			
 The following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office) 	Lands, the 5 Ope	d to cover the ope 20 above) rator certification h other site specifi	to this form. rations unless covered by an or c information and/or plans as	C X
25 Signature	Name (Printed/T Stephanie	vped) e A. Ysasaga		Date 01/20/2012
Approved by (Signature) /S//Don Peterson	Name (Printed/1	ivped)		DateMAY 2 1 2012
Title FIELD MANAGER	Office CAF	RLSBAD FIELI		
Application approval does not warrant or certify that the applicant hole conduct operations thereon. Conditions of approval, if any, are attached	ds legal or equitable title	o those rights in th		ntitle the applicant to

Capitan Controlled Water Basin

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Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Steven Jones Operations Engineer Advisor Don Mayberry Superintendent

Devon Energy Production Company, L.P. 20 North Broadway, Suite 1500 Oklahoma City, OK 73102-8260

(405) 552-7994 (office) (405) 596-8041 (cell) Devon Energy Production Company, L.P. Post Office Box 250 Artesia, NM 88211-0250

(505) 748-0164 (office) (505) 748-5235 (cell)

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this 20th ′ day of/ , 2012. January Printed Name: Stephanie AVY Signed Name: Position Title: Sr./Staff Engineering Technician Address: 20 North/Broadway, OKC/OK 73102 Telephone: (405)-552-7802 Field Representative (if not above signatory): Don Mayberry (see above) Address (if different from above): Telephone (if different from above): E-mail (optional):

 District I

 1625 N. French Dr. Hobbs, NM 88240

 ADistrict II

 1301 W. Grand Avenue, Artesia, NM 88210

 District III

 1000 Rio Brazos Rd., Aztec, NM 87410

 District IV

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

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State of New Mexico Energy. Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-102 Revised October 15.2009 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Paol Nar GATUNA CANYON; BONE SPRING Well Number Property Name **BELLATRIX "28" FED** COM 3H **Operator Name** Elevation **DEVON ENERGY PRODUCTION COMPANY, L.P.** 3482.3 6137 Surface Location Lot Idn Feet from the North/South line Feet from the East/West line 11 or lot no Section Township Range County 1560 SOUTH 200 EDDY Ĩ 29 19 S 31 E EAST "Bottom Hole Location If Different From Surface Feet from the Sorth/South line East/West line Feet from the County LL or lot no. Section Township Range Lot Idn 19 S 2280 SOUTH 340 EAST EDDY 28 31 E I Joint or Infill Dedicated Acres Consolidation Code ⁵ Order No. 160

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



DRILLING PROGRAM

Devon Energy Production Company, LP Bellatrix 28 Fed Com 3H

Surface Location: 1560' FSL & 200' FEL, Unit I, Sec 29 T19S R31E, Eddy, NM Bottom hole Location: 2280' FSL & 340' FEL, Unit I, Sec 28 T19S 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.	Quaternary Alluvium	95'	Fresh Water
b.	Rustler	550'	Barren
c.	Salado	680'	Barren
d.	Base Salado	2025'	Barren
e.	Tansil Dolomite	2085'	Barren
f.	Yates	2165'	Barren
g.	Seven Rivers	2415'	Barren
h.	Capitan	2565'	Barren
i.	B/Capitan	3800'	Barren
j.	Delaware	4320'	Oil
k.	Bone Springs	6830'	Oil
1.	1 st Bone Spring Ss	8000'	Oil
m.	2 nd Bone Spring Lime	8395'	Oil
n.	2 nd Bone Spring Ss	8860'	Oil
о.	2 nd Bone Spring Middle Ss	9000'	Oil
p.	2 nd Bone Spring Middle Ss B	ase 9110'	Oil
q.	3 rd Bone Spring Lm	9300'	Oil
r.	Total Depth M	ITVD 9085' MI	D 13491'

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 20" casing at 550" and circulating cement back to surface. The fresh water sands will be protected by setting 13 3/8" at 2400' and 9 5/8" casing at 4250' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 $\frac{1}{2}$ " 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</u>	OD Csg	Casing	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
COD (OA	$\frac{\text{Interval}}{0-550}$		<u>Interval</u>			
See "0" 26"	0 - 550, 600	20"	0-550 600	94#	BTC	J/K-55
17 1/2"	550'-2400'	13 3/8"	0'-2400'	68#	BTC	J/K-55
12 ¼"	2400'-4250'	9 5/8"	0'-4250'	40#	LTC	J-55
8 ³ / ₄ "	4250'-8300'	5 1/2"	0'-8300'	17#	LTC	HCP-110
8 3/4"	8300'- 14206'	5 ½"	8300'-14206'	17#	BTC	HCP-110

Max TVD: 9,085'

An 8-3/4" pilot hole will be drilled to 9,470' and plugged back to KOP with 450 sacks, Class H, 15.6 ppg, 1.18 cf/sk cement (actual volumes will be adjusted based on caliper log results).

Design Parameter Factors:			
Casing Size	Collapse	Burst Design	Tension Design
·	Design Factor	Factor	Factor
20"	2.46	10.01	31.42
13 3/8"	1.44	2.55	3.82
9 5/8"	1.22	1.73	2.95
5 1/2" LTC	1.64	2.02	1.55
5 1/2" BTC	1.84	2.27	5.22

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

a. 20" Surface

b. 13 3/8"

5

Lead: 1200 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg, 1.75 cf/sk.

Tail: 300 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg, 1.35 cf/sk TOC @ surface

Lead: 1800 sacks (60:40) Poz (Fly Ash) Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8 Fresh Water, 12.5 ppg, 1.73 cf/sk.

Tail: 400 sacks (60:40) Poz Class C Cement + 5% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 52.7% Fresh Water, 13.8 ppg, 1.38 cf/sk. **TOC** @ surface

c. 9 5/8" Intermediate

Intermediate

1st STAGE

Lead: 600 sacks (60:40) 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, 1.73 cf/sk

Tail: 300 sacks (60:40) Poz 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, 13.8 ppg, 1.38 cf/sk

See COH

2nd STAGE (DV tool and ECP at 2,400')

Lead: 700 sacks (60:40) 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, 1.73 cf/sk Tail: 200 sacks (60:40) Poz 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, 13.8 ppg, 1.38 cf/sk TOC @ surface

1st STAGE

Lead: 800 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, 2.00 cf/sk

Tail: 1,510 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, 1.28 cf/sk

2nd STAGE (DV TOOL at ~5,500')

Lead: 800 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg, 2.88 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, 1.38 cf/sk. **TOC** @ 2400'

StringTOC20" Surface:Surface13 3/8" Intermediate:Surface9 5/8" Intermediate:Surface5 ½" Production:2,400"

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 17-1/2" hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 2M system prior to drilling out the surface casing shoe.

The BOP system used to drill the 12-1/4" and 8-3/4" holes 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 prior casing shoe.

c. $5\frac{1}{2}$ "

Production

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.

6.

Proposed Mud Circulation System

- roposed infade -		J		
Depth	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
0' - 550' 00'	8.4-9.0	28-34	NC	Fresh Water
550'- 2400'	9.8-10.0	28-32	NC	Brine
2400'-4250	8.4-9.0	28-32	NC	Fresh Water
4250'-14206'	8.4-9.0	28-32	N/C-12	Fresh Water

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

Auxiliary Well Control and Monitoring Equipment: 7.

- 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 20" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 20" shoe until total depth is reached.

Logging, Coring, and Testing Program: See (0)A 8.

- 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:
 - Dual Laterolog-Micro Laterolog with SP and i. Total Depth to Intermediate Casing Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 - Compensated Neutron with Gamma Ray
 - ii. Total Depth to Surface
 - 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. Possible 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 3800 psi and Estimated BHT 140°. 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.

devon

Devon Energy, Inc.

Eddy County Bellatrix "28" Federal Com #3H OH

Plan: Plan #1

PathfinderX & Y Report

25 January, 2012



devon	Pathf PathfinderX			A Schlumberger Company
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COMPASS 5000.1 Build 56

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Pathfinder

PathfinderX & Y Report

PATHEINDER

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A Schlumberger Company

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COMPASS 5000.1 Build 56



Pathfinder

PathfinderX & Y Report



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A Schlumberger Company

transmission		Devon Enérgy, Inc. Eddy County Bellatrix "28" Federal Co #3H OH Plan #1	999 90 			T M N S	ocal Co-ordinate Ref VD Reference D Reference orth Reference urvey Calculation Me atabase	KB KB Grid Min	I #3H = 26 @ 3508.3us = 26 @ 3508!3us I ″ imum Curvature M 5000.1 Single I	sft (H&P 300)	
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	4,900	0 0 00	0.00	4,900.0	1,391.7	0 0	0.0	0.0	0.00	592,647.16	679,842.64
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	5,100.	.0 0 00	0 00	5,100.0	1,591 7	0.0	0 0	0.0	0.00	592,647.16	679,842.64
5,200.0 0 00 5,200.0 1,691 7 0.0 0.0 0.0 0 592,647.16 679,	5,200	.0 0 00	0 00	5,200.0	1,691 7	0.0	0.0	0.0	0 00	592,647.16	679,842 64
5,300.0 0 00 5,300.0 1,791 7 0.0 0 0.0 0.0 592,647.16 679,	5,300	.0 0 00	0 00	5,300.0	1,791 7	0.0	0 0	0.0	0.00	592,647.16	679,842 64

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Pathfinder

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Project: Eddy Site: Bellat Well: #3H Wellbore: OH Design: Plan f	n Energy, Inc County trix "28" Federal Com				M M Ns Si	ocal Co-ordinate Ref /D.Reference: D.Reference: orth Reference: urvey Calculation Matabase:	KB KB Grid athod:	I #3H = 26 @ 3508.3us = 26 @ 3508.3us 1. imum Curvature M 5000:1 Single d	ft (H&P 300)	
Planned Survey		an a	and a second and a second s	an a	an a	a na manana ang kanana ang kanana Ang kanang ka	an and a start of the start of		and the second se	
MD (usft)			TVD (uštt),				Sec Isft) (*/1		Northing (usft)	Easting (usft)
5,400.0	0.00	0.00	5,400.0	1,891.7	0.0	. 0.0	0.0	0.00	592,647.16	679,842 64
5,500.0	0 00	0 00	5,500 0	1,991.7	0 0	0 0	0.0	0 00	592,647 16	679,842 64
5,600.0	0 00	0.00	5,600 0	2,091.7	0.0	0.0	0.0	0.00	592,647.16	679,842.64
5,700.0	0.00	0 00	5,700 0	2,191.7	0 0	0.0	0 0	0.00	592,647 16	679,842 64
5,800 0	0.00	0.00	5,800 0	2,291 7	0.0	0 0	0 0	0.00	592,647 16	679,842 64
5,900.0	0.00	0 00	5,900.0	2,391.7	0.0	0.0	0.0	0.00	592,647.16	679,842 64
6,000.0	0.00	0 00	6,000.0	2,491.7	0 0	0 0	0.0	0 00	592,647.16	679,842 64
6,100.0	0.00	0 00	6,100 0	2,591 7	0 0	0.0	0.0	0 00	592,647.16	679,842 64
6,200.0	0.00	0 00	6,200 0	2,691.7	0.0	0.0	0.0	0 00	592,647 16	679,842.64
6,300.0	0 00	0.00	6,300 0	2,791 7	0.0	00	0 0	0.00	592,647 16	679,842.64
6,400.0	0.00	0.00	6,400 0	2,891 7	0 0	0 0	0.0	0.00	592,647 16	679,842 64
6,500.0	0.00	0.00	6,500.0	2,991 7	0.0	0.0	0.0	0.00	592,647 16	679,842.64
6,600.0	0 00	0 00	6,600.0	3,091 7	0 0	0.0	0.0	0.00	592,647.16	679,842 64
6,700 0	0.00	0.00	6,700 0	3,191.7	0.0	0.0	0.0	0 00	592,647.16	679,842.64
6,800 0	0.00	0.00	6,800.0	3,291.7	0 0	0.0	0.0	0.00	592,647.16	679,842.64
6,900 0	0.00	0.00	6,900 0	3,391.7	0 0	0 0	0 0	0.00	592,647.16	679,842.64
7,000 0	0.00	0.00	7,000.0	3,491.7	0.0	0.0	0.0	0.00	592,647.16	679,842.64
7,100 0	0 00	0.00	7,100 0	3,591.7	0.0	0.0	0.0	0.00	592,647.16	679,842.64
7,200.0	0.00	0 00	7,200 0	3,691 7	0 0	0.0	0.0	0.00	592,647 16	679,842 64
7,300 0	0.00	0.00	7,300 0	3,791.7	0.0	0.0	0.0	0.00	592,647.16	679,842.64
7,400 0	0 00	0 00	7,400.0	3,891.7	0 0	0.0	0.0	0.00	592,647.16	679,842.64
7,500.0	0.00	0 00	7,500 0	3,991.7	0 0	0 0	0.0	0.00	592,647 16	679,842.64
7,600 0	0.00	0.00	7,600 0	4,091.7	0.0	0.0	0.0	0 00	592,647.16	679,842.64
7,700 0	0 00	0 00	7,700 0	4,191 7	0.0	0.0	0 0	0.00	592,647.16	679,842 64
7,800 0	0 00	0 00	7,800 0	4,291 7	0.0	0.0	0.0	0 00	592,647 16	679,842.64
7,900.0	0.00	0.00	7,900 0	4,391.7	0.0	· 0.0	0 0	0 00	592,647 16	679,842.64
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Pathfinder PathfinderX & Y Report



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8.200.0 0.00 8.200.0 4.891.7 0.0 0.0 0.00 552,647.16 679,844 8.300.0 0.00 0.00 8.400.0 4.891.7 0.0 0.0 0.00 552,647.16 679,844 8.400.0 0.00 0.00 8.600.0 4.891.7 0.0 0.0 0.00 552,647.16 679,844 8.550.0 4.30 4.800.0 8.550.0 5,041.7 1.1 1.2 1.3 10.00 552,647.46 679,844 8.550.0 4.30 4.800 8.550.0 5,041.7 1.1 1.2 1.3 10.00 552,648.24 679,844 8.650.0 9.30 4.800 8.695.6 5.091.3 5.0 5.6 6.3 10.00 552,668.1 679,864 8.650.0 14.30 4.800 8.644.5 5.140.2 11.9 13.2 14.8 10.00 552,668.1 679,864 8.750.0 24.30 48.00 8.774 5.279.1 49.0 54.5 6	Company: Project: Site: Weilbore: Design:	Devon Energy, Inc. Eddy County Bellatrix "28" Federal (#3H OH Plan #1	Cóm				Local Co-ordinate R TVD:Reference: MD.Reference: North Reference: Survey Calculation Database:	K Method:	Vell #3H (B = 26 @ 3508.3us (B = 26 @ 3508.3us Srid (Innum Curvature (DM.5000.1 Single)	ft (H&P 300)	
Cleft Cleft <th< th=""><th>Planned Survey</th><th>A STATE OF A STATE OF</th><th></th><th></th><th>and a second second</th><th></th><th>and strain and a state of the second strain st</th><th></th><th></th><th>the second s</th><th>ر در المحمد به معروب وی از الم المحمد المحمد المحمد</th></th<>	Planned Survey	A STATE OF			and a second		and strain and a state of the second strain st			the second s	ر در المحمد به معروب وی از الم المحمد المحمد
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8,400 0 0.00 8,400.0 4,891.7 0.0 0.0 0.00 592,847.16 679,844 8,507 0 0.00 0.00 8,507.0 4,998.7 0.0 0.0 0.00 592,847.16 679,844 8,507 0 4.30 48.00 8,550.0 5,041 7 1 1.2 1.3 10.00 592,647.16 679,844 8,600.0 3.30 48.00 8,569.6 5,081 3 5.0 5.6 6.3 10.00 592,642.4 679,844 8,600.0 13.30 48.00 8,696.4 5,160.2 11.9 13.2 14.8 10.00 592,668.71 679,864 8,700.0 19.30 48.00 8,742.8 5,231.6 36.7 7.4.0 82.9 10.00 592,668.71 679,864 8,800.0 29.30 48.00 8,724 5,279.1 48.0 37.7 42.2 10.00 592,613.3 679,933 8,800.0 33.30 48.00 8,787.4 5,279.1 48.0	8,200	0.0 0 00	0.00		4,691.7	0.0	0.0	0.0	0.00	592,647 16	679,842.64
8.507 0 0.00 0.00 8.507.0 4.998.7 0.0 0.0 0.00 592,647.16 679,447 8.550.0 4.30 48.00 8.550.0 5.041.7 1.1 1.2 1.3 10.00 592,647.16 679,447 8.600.0 9.30 48.00 8.590.6 5.091.3 5.0 5.6 6.3 10.00 592,652.20 679,447 8.650.0 14.30 48.00 8.686.5 5.140.2 11.9 13.2 14.8 10.00 592,659.04 679,857 8.750.0 24.30 48.00 8.686.4 5.188.1 21.5 23.9 28.8 10.00 592,661.13 679,847 8.600.0 29.30 48.00 8.787.4 5.279.1 49.0 54.5 61.0 10.00 592,713.83 679,941 8.800.0 29.30 48.00 8.829.9 5,321.6 66.7 74.0 82.9 10.00 592,761.6 679,939 8.900.0 39.30 48.00 8,907.2	8,300	0.0 0 00	0 00	8,300 0	4,791 7	0 0	0 0	0.0	0.00	592,647.16	679,842.64
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8.600.0 9.30 48 00 8.599.6 5.091 3 5.0 5.6 6.3 10.00 592.652.20 679.844 8.650 14 30 48 00 8.686 4 5.140 2 11.9 13.2 14.8 10.00 592.652.20 679.844 8.700.0 19.30 48.00 8.696 4 5.180 1 21.5 23.9 28.8 10.00 592.662.10 679.864 8.750.0 24.30 48.00 8.742.8 5.231.6 34.0 37.7 42.2 10.00 592.662.1 679.89 8.800.0 29.30 48.00 8.787.4 5.279.1 49.0 54.5 61.0 10.00 592.793.87 679.93 8.800.0 34.30 48.00 8.892.9 5.361.6 86.7 96.3 107.8 10.00 592.765.4 679.93 8.900.0 39.30 48.00 8.907.2 5.398.9 109.0 121.1 135.6 10.00 592.765.14 679.934 9.000.0 49.30 48.00 <td>8,507</td> <td>0.00</td> <td>0.00</td> <td>8,507.0</td> <td>4,998.7</td> <td>0.0</td> <td>0 0</td> <td>0.0</td> <td>0.00</td> <td>592,647.16</td> <td>679,842.64</td>	8,507	0.00	0.00	8,507.0	4,998.7	0.0	0 0	0.0	0.00	592,647.16	679,842.64
8.6500 14.30 48.00 8.648.5 5.140.2 11.9 13.2 14.8 10.00 592.659.04 679.864 8.700.0 19.30 48.00 8.696.4 5.188.1 21.5 23.9 26.8 10.00 592.659.04 679.864 8.750.0 24.30 48.00 8.742.8 5.234.5 34.0 37.7 42.2 10.00 592.659.24 679.864 8.600.0 29.30 48.00 8.787.4 5.279.1 49.0 54.5 61.0 10.00 592.659.24 679.864 8.650.0 34.30 48.00 8.629.9 5.521.6 66.7 74.0 82.9 10.00 592.738.7 679.934 8.900.0 39.30 48.00 8.907.2 5.398.6 10.90 121.1 135.6 10.00 592.780.54 679.994 8.900.0 49.30 48.00 8.972.3 5.464.0 1597 177.3 198.6 10.00 592.780.54 679.994 9.000.0 59.30 <t< td=""><td>8,550</td><td>0.0 4 30</td><td>48.00</td><td>8,550.0</td><td>5,041 7</td><td>11</td><td>1.2</td><td>1.3</td><td>10.00</td><td>592,648.24</td><td>679,843 84</td></t<>	8,550	0.0 4 30	48.00	8,550.0	5,041 7	11	1.2	1.3	10.00	592,648.24	679,843 84
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8,750.0 24.30 48.00 8,742.8 5,234.5 34.0 37.7 42.2 10.00 592,681.13 679,803 8,800.0 29.30 48.00 8,774 5,279.1 49.0 54.5 61.0 10.00 592,686.21 679,893 8,850.0 34.30 48.00 8,829.9 5,321.6 66.7 74.0 82.9 10.00 592,733.87 679,933 8,900.0 39.30 48.00 8,869.9 5,361.6 86.7 96.3 107.8 10.00 592,733.87 679,933 8,950.0 44.30 48.00 8,907.2 5,398.9 109.0 121.1 135.6 10.00 592,780.54 679,939 9,000.0 49.30 48.00 8,941.4 5,433.1 133.4 148.1 165.9 10.00 592,780.54 679,999 9,000.0 54.30 48.00 8,972.3 5,464.0 159.7 177.3 198.6 10.00 592,806.82 660,011 9,100.0 59.30	8,650	0 14 30	48 00	8,648 5	5,140 2	11.9	13 2	14.8	10 00	592,659 04	679,855.83
8.800 0 29.30 48.00 8.787 4 5.279.1 49.0 54.5 61.0 10.00 592.696.21 679.89 8.850.0 34.30 48.00 8.829.9 5,321.6 66.7 74.0 82.9 10.00 592.713.83 679.90 8.900 0 39.30 48.00 8.869.9 5,361.6 86.7 96.3 107.8 10.00 592.733.87 679.930 8.950 0 44.30 48.00 8.907.2 5,388.9 109.0 121.1 135.6 10.00 592.760.64 679.990 9.000.0 49.30 48.00 8.914 5,433.1 133.4 148.1 165.9 10.00 592.780.54 679.990 9.050 0 54.30 48.00 8.997 5,464.0 1597 177.3 198.6 10.00 592.780.54 679.990 9.050 0 54.30 48.00 8.997 5,491.4 187.6 208.4 233.4 10.00 592.806.42 680.081 9.150.0 64.30 <	8,700	0 19 30	48.00	8,696 4	5,188 1	21.5	23 9	26.8	10 00	592,668.71	679,866.57
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9,000.0 49.30 48.00 8,941 4 5,433.1 133.4 148 1 165.9 10.00 592,780.54 679,994 9,050 0 54.30 48.00 8,972 3 5,464.0 159 7 177.3 198 6 10.00 592,806 82 680,014 9,100.0 59 30 48 00 8,999 7 5,491 4 187 6 208.4 233 4 10.00 592,834 81 680,057 9,150.0 64.30 48.00 9,023.3 5,515.0 217.1 241.1 270.0 10.00 592,864.29 680,087 9,200.0 69.30 48 00 9,043 0 5,534.7 247.9 275.3 308.3 10.00 592,926.80 680,151 9,250.0 74.30 48.00 9,058 6 5,550.3 279.6 310 6 347 8 10 00 592,926.80 680,151 9,300.0 79.30 48.00 9,070.0 5,561 7 312.2 346.7 388 3 10.00 592,959.36 680,181 9,350.0 84.30 48.00 9,070.0 5,561 7 312.2 346.7 388 3	8,900	0 39 30	48 00	8,869.9	5,361.6	86.7	96.3	107.8	10.00	592,733 87	679,938 94
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9,150.064.3048.009,023.35,515.0217.1241.1270.010.00592,864.29680,0839,200.069.3048.009,043.05,534.7247.9275.3308.310.00592,950.3680,1119,250.074.3048.009,058.65,550.3279.6310.6347.810.00592,926.80680,1519,300.079.3048.009,070.05,561.7312.2346.7388.310.00592,959.36680,1519,350.084.3048.009,077.15,568.8345.3383.5429.410.00592,92.47680,2219,400.089.3048.009,079.95,571.6378.7420.6471.010.00593,025.86680,2619,406.489.9448.009,080.05,571.7383.0425.3476.310.00593,090.46680,2619,500.089.9451.749,080.15,571.8443.3496.9555.84.00593,090.46680,33	9,050	0 54.30	48.00	8,972 3	5,464.0	159 7	177.3	198 6	10.00	592,806 82	680,019 96
9,200.0 69.30 48 00 9,043 0 5,534.7 247.9 275.3 308.3 10.00 592,895.03 680,11 9,250.0 74.30 48.00 9,058 6 5,550.3 279.6 310 6 347 8 10.00 592,926.80 680,155 9,300.0 79.30 48.00 9,070.0 5,561 7 312.2 346.7 388 3 10.00 592,929.36 680,185 9,300.0 79.30 48.00 9,077.1 5,568 8 345.3 383 5 429 4 10.00 592,929.247 680,224 9,400.0 89 30 48.00 9,079 9 5,571 6 378.7 420.6 471.0 10 00 593,025.86 680,264 9,406.4 89.94 48.00 9,080 0 5,571.7 383.0 425.3 476.3 10.00 593,090.46 680,264 9,500.0 89.94 51.74 9,080 1 5,571.8 443.3 496.9 555.8 4.00 593,090.46 680,33	9,100	0.0 59 30	48 00	8,999 7	5,491 4	187 6	208.4	233 4	10.00	592,834 81	680,051 05
9,250.0 74.30 48.00 9,058.6 5,550.3 279.6 310.6 347.8 10.00 592,926.80 680,152 9,300.0 79.30 48.00 9,070.0 5,561.7 312.2 346.7 388.3 10.00 592,926.80 680,152 9,350.0 84.30 48.00 9,077.1 5,568.8 345.3 383.5 429.4 10.00 592,992.47 680,220 9,400.0 89.30 48.00 9,079.9 5,571.6 378.7 420.6 471.0 10.00 593,025.86 680,260 9,406.4 89.94 48.00 9,080.0 5,571.7 383.0 425.3 476.3 10.00 593,030.14 680,260 9,500.0 89.94 51.74 9,080.1 5,571.8 43.3 496.9 555.8 4.00 593,090.46 680,333	9,150	0.0 64.30	48.00	9,023.3	5,515.0	217.1	241.1	270.0	10.00	592,864.29	680,083.78
9,300.079.3048.009,070.05,561 7312.2346.7388 310.00592,959 36680,1809,350 084.3048 009,077 15,568 8345.3383 5429 410.00592,959 36680,2209,400.089 3048.009,079 95,571 6378.7420.6471.010 00593,025.86680,2609,406.489.9448.009,080 05,571.7383.0425.3476.310.00593,030.14680,2609,500.089 9451.749,080 15,571.8443.3496 9555.84.00593,090.46680,33	9,200	0.0 69.30	48 00	9,043 0	5,534.7	247.9	275.3	308.3	10.00	592,895.03	680,117.92
9,300.079.3048.009,070.05,561 7312.2346.7388 310.00592,959 36680,1809,350 084.3048 009,077 15,568 8345.3383 5429 410.00592,959 36680,2209,400.089 3048.009,079 95,571 6378.7420.6471.010 00593,025.86680,2609,406.489.9448.009,080 05,571.7383.0425.3476.310.00593,030.14680,2609,500.089 9451.749,080 15,571.8443.3496 9555.84.00593,090.46680,33	9,250	0.0 74.30	48.00	9,058 6	5,550.3	279.6	310 6	347 8	10 00	592,926.80	680,153.21
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											680,420.16
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COMPASS 5000.1 Build 56



Pathfinder PathfinderX & Y Report



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Company: Project: Site:	Devon Energ Eddy County Bellatrix "28"	1		1.00 ° .00		AN an	Local Co-ordinate TVD Reference: MD Reference:	K State Constant	Vell #3H B = 26 @ 3508.3us		
Well:	#3H	Federal Coll	I		سې کې د دونې د د د د د د د د د د د د د	•	North Reference:		B.= 26 @ 3508.3us Grid	n (H&P 300)	
Wellbore:	Чон					AL	Survey Calculation		finimum Curvature	•	
Design:	Plan #1						Database:	E	DM 5000.1 Single L	Jser Db	<u> </u>
Planned Surve	y Star		ALL THE A REAL MENT AND A DESCRIPTION	in grada on the state of the st	فتتبخص مايته مناتهماتها	3- 22 bar - ha 7 sa		<u> </u>			
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MD (usft)	inc (°)		xi (azimuth) (°)	TVD (ušft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec	DLeg, /100usft)	Northing (usft)	Easting (usft)
	300.0	89.94	63.74	9,080.4	5,572.1	603.1	750.1	829.5	4.00	593,250.27	680,592.78
	900 0	89 94	67.74	9,080 5	5,572 2	644.2	841.3	925.7	4 00	593,291.35	680,683 93
10.0	00.0	89.94	71.74	9,080.6	5,572.3	678.8	935.1	1,023.5	4.00	593,325.96	680,777 73
	100.0	89.94	75 74	9,080.7	5,572.3	706 8	1,031.1	1,122.5	4.00	593,353.95	680,873.71
-	200 0	89 94	79.74	9,080 8	5,572 5	728 0	1,128.8	1,222.3	4.00	593,375.17	680,971 41
	300.0	89.94	83 74	9,080.9	5,572 6	742.4	1,227.7	1,322.2	4.00	593,389 53	681,070.35
	400.0	89.94	87.74	9,081.0	5,572.7	749 8	1,327.4	1,422.0	4.00	593,396.95	681,170.06
	156.4	89.94	90 00			750.9			4.00	593,398 06	681,226.45
	+58.4 500.0	89.94 89.94	90.00	9,081 1 9,081 1	5,572 8	750.9	1,383 8 1,427 4	1,477.9 1,521.1	4.00	593,398 06 593,398 06	681,220.45
	500.0	89.94 89.94	90.00	9,081 3	5,572 8 5,573 0	750.9	1,427.4	1,620.0	0.00	593,398.06 593,398.06	681,370.04
	700.0	89.94 89.94	90.00	9,081.3	5,573 0	750.9	1,527.4		0.00	593,398.00 593,398.06	681,470.04
-	300.0	89.94 89.94	90 00	9,081.4	5,573.2	750.9	1,727.4	1,719 0 1,817.9	0.00	593,398.00	681,570.04
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-	900 0	89.94	90 00	9,081.6	5,573.3	750.9	1,827.4	1,916.8	· 0.00	593,398.06	681,670.04
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-	100 0	89.94	90 00	9,081.8	5,573.5	. 750 9	2,027.4	2,114.7	0.00	593,398.06	681,870.04
	200 0	89.94	90 00	9,081.9	5,573.6	750 9	2,127.4	2,213 7	0.00	593,398.06	681,970.04
11,3	300 0	89.94	90 00	9,082 0	5,573.7	750 9	2,227 4	2,312.6	0.00	593,398.06	682,070 04
11,4	400 0	89 94	90.00	9,082 1	5,573.8	750.9	2,327.4	2,411.6	0.00	593,398.05	682,170.04
11,5	500.0	89.94	90 00	9,082.2	5,573 9	750.9	2,427 4	2,510.5	0 00	593,398 05	682,270 04
11, C	500.0	89.94	90 00	9,082.3	·5,574.0	750.9	2,527.4	2,609.5	0.00	593,398.05	682,370.04
11,7	700.0	89 94	90 00	9,082.4	5,574 1	750.9	2,627 4	2,708.4	0.00	593,398.05	682,470.04
11,8	300 0	89 94	90 00	9,082.5	5,574 2	750.9	2,727 4	2,807.4	0 00	593,398 05	682,570.04
11,9	900 0	89 94	90 00	9,082.6	5,574 3	750 9	2,827.4	2,906.3	0.00	593,398.05	682,670 04
	000 0	89.94	90 00	9,082.7	5,574 4	750 9	2,927.4	3,005.3	0.00	593,398 05	682,770 04
12,	100.0	89.94	90.00	9,082 8	5,574.5	750 9	3,027 4	3,104 2	0.00	593,398 05	682,870 04
12,2	200.0	89 94	90 00	9,082.9	5,574.6	750.9	3,127.4	3,203.2	0.00	593,398.05	682,970.04
12,3	300.0	89.94	90.00	9,083.0	5,574.7	750.9	3,227.4	3,302 1	0.00	593,398.05	683,070.04

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Project: E Site: B Well: 0 Wellbore: 0	Devon Energy, Inc. ddy County Iellatrix "28" Federal Com 3H DH Plan #1					Local Co-ordina TVD Reference: MD Reference: North Reference Survey Calculati Database:	on Method:	Well #3H KB = 26 @ 3508.3t KB = 26 @ 3508.3t Grid Minimum Curvature EDM.5000.1 Single	usft (H&P 300)	
Planned Survey MD (usft)	Inc A		TVD (üsft)	TVDSS (usft)	N/S (usft)	E/W (ušfi)	V. Sec	DLeg (100ustt)	Northing	Easting (usft)
12,400.0		90 00	9,083 1	5,574 8	750.9	3,327.4	3,401.0	0.00	593,398.05	683,170 04
12,500.0	89.94	90.00	9,083.2	5,574.9	750.9	3,427.4	3,500.0	0.00	593,398.05	683,270 04
12,600 0	89.94	90.00	9,083.3	5,575.0	`750.9	3,527 4	3,598.9	0.00	593,398.05	683,370 04
12,700.0	89.94	90.00	9,083.4	5,575 1	750 9	3,627.4	3,697.9	0.00	593,398.05	683,470.04
12,800.0	89.94	90.00	9,083 5	5,575 2	750.9	3,727.4	3,796.8	0.00	593,398 05	683,570 04
12,900.0	89.94	90.00	9,083.6	5,575 3	750.9	3,827.4	3,895.8	0.00	593,398 05	683,670 04
13,000 0	89.94	90.00	9,083.7	5,575.4	750.9	3,927 4	3,994.7	0.00	593,398 05	683,770.04
13,100 0	89 94	90 00	9,083 9	5,575 6	750 9	4,027 4	4,093.7	0.00	593,398.05	683,870.04
13,200.0	89 94	90.00	9,084.0	5,575 7	750 9	4,127.4	4,192.6	0.00	593,398.05	683,970.04
13,300.0	89.94	90.00	9,084.1	5,575.8	750.9	4,227.4	4,291.6	0.00	593,398.04	684,070 04
13,400 0	89.94	90.00	9,084.2	5,575.9	750 9	4,327.4	4,390.5	0 00	593,398 04	684,170 04
13,500.0	89.94	90.00	9,084.3	5,576 0	750.9	4,427.4	4,489 5	0.00	593,398.04	684,270.04
13,600 0	89.94	90.00	9,084.4	5,576.1	750.9	4,527.4	4,588 4	0.00	593,398.04	684,370.04
13,700.0	. 89.94	90.00	9,084.5	5,576 2	750.9	4,627.4	4,687 4	0.00	593,398 04	684,470 04
13,800 0	89.94	90.00	9,084.6	5,576.3	750.9	4,727.4	4,786.3	0.00	593,398.04	684,570.04
13,900 0	89.94	90.00	9,084.7	5,576 4	750 9	4,827.4	4,885.3	0.00	593,398 04	684,670.04
14,000.0	89.94	90.00	9,084.8	5,576.5	750 9	4,927.4	4,984 2	0.00	593,398 04	684,770.04
14,100.0	89.94	90.00	9,084.9	5,576.6	750.9	5,027.4	5,083 1	0.00	593,398.04	684,870 04
14,205.8	89.94	90.00	9,085 0	5,576 7	750.9	5,133.2	5,187 8	0.00	593,398.04	684,975.81
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Checked By:	********			Approved By:				Date:		







Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS Devon Energy Production Company, LP Bellatrix 28 Fed Com 3H

Surface Location: 1560' FSL & 200' FEL, Unit I, Sec 29 T19S R31E, Eddy, NM Bottom hole Location: 2280' FSL & 340' FEL, Unit I, Sec 28 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 3000 psi working pressure.
- 4. All fittings will be flanged.

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- 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.

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Fluid Technology

ContiTech Beattie Corp. Website: <u>www.contitechbeattie.com</u>

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. γ

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.contitechbeattle.com



Hydrostatic Test Certificate

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Certificate Number: 4520	PBC No:	10321	CustomeriNamel&Address
Customer Purchase Order No:	RIG 300	<u></u>	1437 SOUTH BOULDER TULSA, OK 74119
Project:			10LSA, OK 74119
	Accept	ed by ContiTech Beattle Inspection	Accepted by Client Inspection
ContiTech Beattie Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed:	Josh Sims	
USA	Date:	10/27/10	
		ted by our Quality Management System, and to the requirements of the purchase order as issued to C	e best of our knowledge are found to conform to relevant industrial ontiTech Beattie Corporation.

These goods were made in the United States of America

tem;	Part No.	City Serial As Number Len	sBuilt Work: A Test. TestTime gth(m) Press. Press. (minutes)
1	3" ID 10K Choke & Kill Hose x 35ft OAL	1 49106	10 kpsi 15 kpsi 60
	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

HT4520 H&P 10321





Commitment Runs Deep



Design Plan Operation and Maintenance Plan Closure Plan

SENM - Closed Loop Systems June 2008

I. Design Plan

Devon uses various high efficient closed loop systems (CLS). The CLS shown is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Centrifuges: The centrifuges can be utilized depending on the well's anticipated solids volume. One or two centrifuges can be used depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependent on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds

ultra fine solids into a mass that is within the centrifuge operating design. The dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Solids Control service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

III. Closure Plan

A maximum 170' X 170' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

Hydrogen Sulfide (H₂S) Contingency Plan

For

Bellatrix "28" Federal Com 3H

Sec-29, T-19S R-31E 1560' FSL & 200' FEL, LAT. = 32.6284308'N (NAD83) LONG = 103.8834317'W

Eddy County NM

Devon Energy Corp. Cont Plan. Page 1





Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated Southward on lease road and the East or West on main road.. Crews should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There is a home and road within or near the ROE</u>. Steps should be taken, in the case of a gas release, to warn and protect those properties.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Devon Energy Corp. Company Call List

Artesia (575)	Cellular	Office	Home
Foreman – Roger Hernand	lez . 748-0169	748-5238	746-2991
Asst. Foreman – Tommy P			
Don Mayberry	748-5235	748-0164	746-4945
Brian Schultz	(505) 325-5623	746-9072	746-4945
Engineer - Steven Jones .	(405) 596-8041.	(405) 552-7994	ļ

Agency Call List

Carlsbad

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<u>Lea</u>	Hobbs	
County	State Police	
<u>(575)</u>	City Police	
	Sheriff's Office	
	Ambulance	
	Fire Department	
	LEPC (Local Emergency Planning Committee)	
	NMOCD	
	US Bureau of Land Management	

<u>Eddy</u>	
County	
(575)	

State Police	885-3137
City Police	
Sheriff's Office	887-7551
Ambulance	
Fire Department	885-2111
LEPC (Local Emergency Planning Committee)	887-3798
US Bureau of Land Management	887-6544
New Mexico Emergency Response Commission (Santa Fe) .	(505)476-9600
24 HR	(505) 827-9126
National Emergency Response Center (Washington, DC)	(800) 424-8802

Emergency Services

	Boots & Coots IWC	1-800-256-9688 or (281) 931-8884
	Cudd Pressure Control	(915) 699-0139 or (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Flight For Life - Lubbock, TX	
GPS	Aerocare - Lubbock, TX	
position:	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
-	Lifeguard Air Med Svc. Albuquerque, NM	(575) 272-3115

Prepared in conjunction with Wade Rohloff





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PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY
LEASE NO.:	NM101113
WELL NAME & NO.:	3H BELLATRIX 28 FED COM
SURFACE HOLE FOOTAGE:	1560' FSL & 200' FEL
BOTTOM HOLE FOOTAGE	2280' FSL & 340' FEL (Sec. 28)
· LOCATION:	Section 29, T.19 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions Permit Expiration] Archaeology, Paleontology, and Historical Sites **Noxious Weeds** Special Requirements **Hackberry OHV** Lesser Prairie-Chicken Timing Stipulations Ground-level Abandoned Well Marker **Communitization Agreement** Construction Notification Topsoil Closed Loop System Federal Mineral Material Pits Well Pads Roads **Road Section Diagram Drilling** H₂S – Onshore Order #6 Logging Requirements Waste Material and Fluids **Production** (Post Drilling) Well Structures & Facilities **Pipelines Electric Lines Interim Reclamation Final Abandonment & Reclamation**