AFS-12-387

OCD-ARTESIA

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MAY 22 2012
NMOCD ARTESIA

Form 3160-3
(February 2005)

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007 EA 12-535

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. NMLC-063622 & NMNM-101113 BH

6 If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7 If Unit or CA Agreement, Name and No.

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

8. Lease Name and Well No. Bellatrix 28 Fed Com 4H C 39244?

2 Name of Operator: Devon Energy Production Co., LP C 6137?

9 API Well No. 30-015-40334

3a Address: 20 North Broadway, OKC, OK 73102

3b. Phone No. (include area code): (405)-552-7802

10 Field and Pool, or Exploratory: Gatuna Canyon; Bone Spring C 96687?

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

At surface: NESE 1510' FSL & 200' FEL Lot I of Sec 29

At proposed prod. zone: SESE 900' FSL & 340' FEL Lot P of Sec 28

UNORTHODOX LOCATION

11 Sec, T R. M or Blk. and Survey or Area: Sec 29-T19S-R31E

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 drlg. unit line, if any)	16 No of acres in lease	17 Spacing Unit dedicated to this well
200'	1080 & 240 acres	160 acres
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	**19 Proposed Depth**	**20 BLM/BIA Bond No. on file**
See Plat	MTVD 9100' MD 14135'	CO-1104
21 Elevations (Show whether DF, KDB, RT, GL, etc)	**22 Approximate date work will start***	**23 Estimated duration**
3482.3' GL	03/15/2012	45 days

24. Attachments

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

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

25. Signature	Name (Printed/Typed)	Date
	Stephanie A. Ysasaga	01/20/2012

Title: Sr. Staff Engineering Technician

Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date MAY 21 2012
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 USC Section 1001 and Title 43 USC 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

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

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

(405) 552-7994 (office)
(405) 596-8041 (cell)

Don Mayberry
Superintendent

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 January, 2012.
Printed Name: Stephanie A. Ysasaga
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
District 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

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

1 API Number	2 Pool Code	3 Pool Name
30-015-40334	96688	GATUNA CANYON; BONE SPRING

4 Property Code	5 Property Name	6 Well Number
39244	BELLATRIX "28" FED COM	4H

7 OGRID No.	8 Operator Name	9 Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3482.3

10 Surface Location

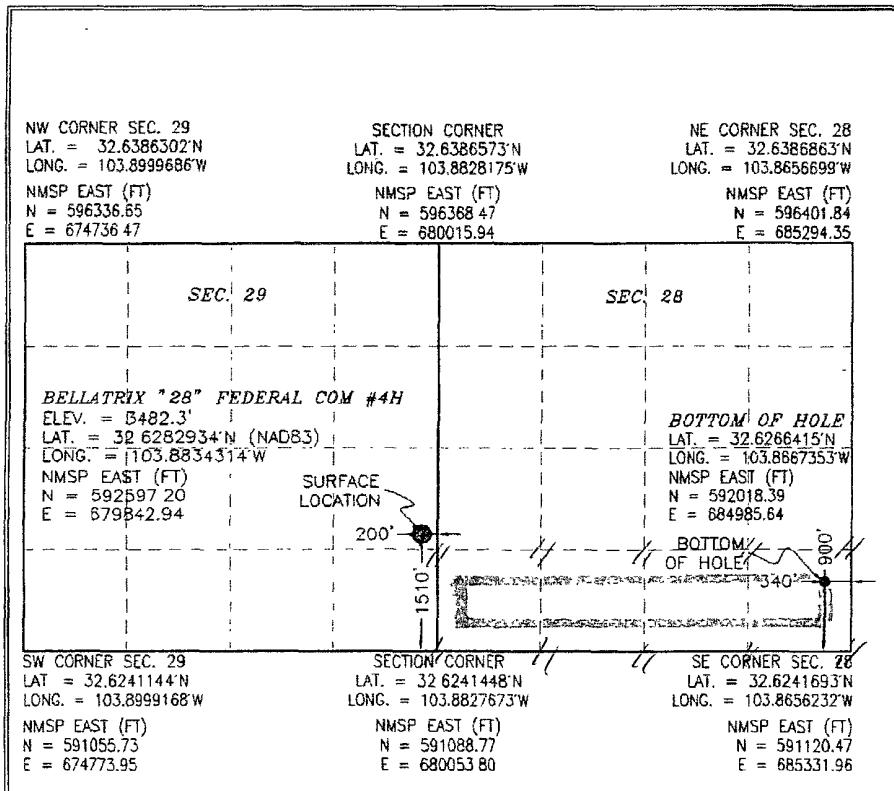
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	29	19 S	31 E		1510	SOUTH	200	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	28	19 S	31 E		900	SOUTH	340	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 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.



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 01/20/2012

Printed Name

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 27, 2011

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number: FILIMON F. JARAMILLO, PLS 12797

SURVEY NO. 760

1st PERFORATION POINT: 1000' FSL & 300' FWL OF SECTION 28

PRODUCING AREA **PROJECT AREA**

DRILLING PROGRAM

Devon Energy Production Company, LP
Bellatrix 28 Fed Com 4H
Surface Location: 1510' FSL & 200' FEL, Unit I, Sec 29 T19S R31E, Eddy, NM
Bottom hole Location: 900' FSL & 340' FEL, Unit P, 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
l.	1st Bone Spring Ss	8000'	Oil
m.	2nd Bone Spring Lime	8395'	Oil
n.	2nd Bone Spring Ss	8860'	Oil
o.	2nd Bone Spring Middle Ss	9000'	Oil
p.	2nd Bone Spring Middle Ss Base	9110'	Oil
q.	3rd Bone Spring Lm	9300'	Oil
r.	Total Depth	MTVD 9100' MD 14135'	

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'~~ 600' 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 ½" 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:

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
See COA 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 ¾"	4250'–8300'	5 ½"	0'-8300'	17#	LTC	HCP-110
8 ¾"	8300'- 14135'	5 ½"	8300'-14135'	17#	BTC	HCP-110

Max TVD: 9,100'

Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design 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

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**

b. 13 3/8" Intermediate

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

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 COA →

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

c. 5 ½" Production

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 @ ~~3,750~~'

String	**TOC**
20" Surface:	Surface
13 3/8" Intermediate:	Surface
9 5/8" Intermediate:	Surface
5 ½" Production:	2,400'

See COA

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.

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 Flex Hose

6. **Proposed Mud Circulation System**

Depth	Mud Wt.	Visc	Fluid Loss	Type System
0' – 550' 600	8.4-9.0	28-34	NC	Fresh Water
550'-2400'	9.8-10.0	28-32	NC	Brine
2400 550'–4250'	8.4-9.0	28-32	NC	Fresh Water
4250'-14135'	8.4-9.0	28-30	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. 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.

8. **Logging, Coring, and Testing Program:** See COA
   a. Drill stem tests will be based on geological sample shows.
   b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
   c. The open hole electrical logging program will be:
      i. Total Depth to Intermediate Casing — Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
      ii. Total Depth to Surface — Compensated Neutron with Gamma Ray
      iii. No coring program is planned
      iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. **Potential Hazards:**
   a. No abnormal pressures or temperatures are expected. There is no known presence of 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
#4H
OH

Plan: Plan #1

PathfinderX & Y Report

25 January, 2012

PATHFINDER®
A Schlumberger Company

Company:	Devon Energy, Inc	**Local Co-ordinate Reference:**	Well #4H
Project:	Eddy County	**TVD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	**MD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan #1	**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 Bellatrix "28" Federal Com

Site Position:		**Northing:**	595,443 610 usft	**Latitude:**	32° 38' 10 047 N
From:	Map	**Easting:**	679,232 620 usft	**Longitude:**	103° 53' 7.349 W
Position Uncertainty:	0 0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0 24 °

Well #4H

Well Position	**+N/-S**	0 0 usft	**Northing:**	592,597.200 usft	**Latitude:**	32° 37' 41.856 N
	+E/-W	0.0 usft	**Easting:**	679,842.940 usft	**Longitude:**	103° 53' 0 353 W
Position Uncertainty		0 0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,482.3 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/25/2012	7 67	60 52	48,802

Design Plan #1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0 0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	96.42

Survey Tool Program Date 1/25/2012

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0 0	14,134.9	Plan #1 (OH)	Pathfinder	Pathfinder MWD

Company:	Devon Energy, Inc	**Local Co-ordinate Reference:**	Well #4H
Project:	Eddy County	**TVD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	**MD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	**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	-3,508.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
100.0	0.00	0 00	100.0	-3,408.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
200.0	0.00	0.00	200 0	-3,308.3	0 0	0.0	0.0	0 00	592,597 20	679,842.94
300.0	0.00	0.00	300 0	-3,208.3	0.0	0.0	0.0	0 00	592,597 20	679,842 94
400 0	0.00	0.00	400 0	-3,108.3	0 0	0.0	0.0	0.00	592,597.20	679,842.94
500.0	0.00	0 00	500.0	-3,008 3	0 0	0.0	0.0	0.00	592,597.20	679,842.94
600 0	0.00	0.00	600.0	-2,908.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
700.0	0.00	0 00	700.0	-2,808.3	0.0	0.0	0.0	0.00	592,597 20	679,842.94
800 0	0.00	0 00	800.0	-2,708.3	0.0	0.0	0.0	0.00	592,597 20	679,842 94
900.0	0.00	0.00	900.0	-2,608.3	0.0	0.0	0 0	0.00	592,597 20	679,842.94
1,000 0	0.00	0 00	1,000.0	-2,508 3	0 0	0.0	0.0	0.00	592,597 20	679,842 94
1,100.0	0.00	0.00	1,100.0	-2,408 3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
1,200 0	0 00	0.00	1,200.0	-2,308.3	0.0	0.0	0.0	0.00	592,597 20	679,842.94
1,300 0	0.00	0 00	1,300 0	-2,208.3	0 0	0.0	0 0	0.00	592,597.20	679,842 94
1,400.0	0 00	0.00	1,400.0	-2,108.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
1,500.0	0.00	0.00	1,500 0	-2,008.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
1,600.0	0.00	0.00	1,600.0	-1,908 3	0 0	0.0	0.0	0.00	592,597 20	679,842.94
1,700.0	0.00	0.00	1,700.0	-1,808.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
1,800.0	0.00	0.00	1,800 0	-1,708.3	0.0	0.0	0 0	0.00	592,597.20	679,842.94
1,900.0	0 00	0.00	1,900 0	-1,608 3	0 0	0 0	0.0	0.00	592,597.20	679,842 94
2,000.0	0.00	0.00	2,000.0	-1,508.3	0.0	0.0	0.0	0 00	592,597.20	679,842.94
2,100 0	0.00	0 00	2,100 0	-1,408 3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
2,200.0	0.00	0.00	2,200 0	-1,308.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
2,300.0	0.00	0 00	2,300 0	-1,208 3	0.0	0 0	0.0	0.00	592,597.20	679,842.94
2,400.0	0.00	0 00	2,400.0	-1,108 3	0.0	0.0	0.0	0 00	592,597 20	679,842 94
2,500 0	0.00	0.00	2,500 0	-1,008.3	0.0	0 0	0.0	0.00	592,597.20	679,842.94
2,600 0	0.00	0 00	2,600 0	-908.3	0.0	0.0	0.0	0.00	592,597 20	679,842 94

Company:	Devon Energy, Inc.	**Local Co-ordinate Reference:**	Well #4H
Project:	Eddy County	**TVD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	**MD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	**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	-808.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
2,800.0	0.00	0 00	2,800.0	-708.3	0.0	0.0	0.0	0.00	592,597.20	679,842.94
2,900 0	0.00	0.00	2,900 0	-608 3	0.0	0.0	0.0	0 00	592,597 20	679,842.94
3,000.0	0.00	0.00	3,000 0	-508.3	0 0	0.0	0.0	0.00	592,597.20	679,842.94
3,100.0	0.00	0.00	3,100 0	-408.3	0 0	0.0	0 0	0 00	592,597 20	679,842 94
3,200.0	0.00	0.00	3,200 0	-308.3	0 0	0.0	0.0	0.00	592,597 20	679,842 94
3,300.0	0.00	0 00	3,300.0	-208.3	0.0	0.0	0.0	0.00	592,597 20	679,842 94
3,400.0	0.00	0 00	3,400 0	-108.3	0 0	0.0	0 0	0 00	592,597 20	679,842.94
3,500 0	0.00	0 00	3,500 0	-8.3	0.0	0.0	0.0	0.00	592,597.20	679,842 94
3,600.0	0.00	0.00	3,600.0	91.7	0.0	0.0	0.0	0.00	592,597 20	679,842.94
3,700.0	0.00	0.00	3,700 0	191.7	0 0	0.0	0.0	0.00	592,597 20	679,842 94
3,800.0	0.00	0.00	3,800.0	291.7	0.0	0.0	0.0	0.00	592,597 20	679,842 94
3,900.0	0.00	0 00	3,900.0	391.7	0.0	0.0	0.0	0.00	592,597 20	679,842.94
4,000.0	0.00	0.00	4,000.0	491.7	0 0	0.0	0.0	0.00	592,597.20	679,842.94
4,100.0	0.00	0 00	4,100.0	591.7	0 0	0.0	0.0	0.00	592,597.20	679,842.94
4,200.0	0 00	0.00	4,200.0	691.7	0 0	0.0	0.0	0.00	592,597.20	679,842.94
4,300.0	0.00	0 00	4,300.0	791.7	0.0	0 0	0.0	0.00	592,597.20	679,842.94
4,400.0	0.00	0.00	4,400 0	891.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
4,500.0	0.00	0 00	4,500.0	991.7	0.0	0.0	0.0	0.00	592,597 20	679,842.94
4,600.0	0.00	0 00	4,600 0	1,091.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
4,700.0	0.00	0 00	4,700.0	1,191.7	0.0	0.0	0 0	0.00	592,597 20	679,842 94
4,800.0	0.00	0 00	4,800.0	1,291 7	0 0	0.0	0 0	0.00	592,597.20	679,842.94
4,900.0	0 00	0.00	4,900 0	1,391.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
5,000.0	0.00	0 00	5,000 0	1,491 7	0.0	0.0	0 0	0.00	592,597.20	679,842 94
5,100.0	0.00	0 00	5,100.0	1,591 7	0.0	0.0	0.0	0.00	592,597.20	679,842 94
5,200.0	0 00	0.00	5,200 0	1,691 7	0 0	0.0	0.0	0.00	592,597 20	679,842.94
5,300.0	0 00	0 00	5,300 0	1,791.7	0.0	0.0	0.0	0.00	592,597.20	679,842 94

Company:	Devon Energy, Inc	**Local Co-ordinate Reference:**	Well #4H
Project:	Eddy County	**TVD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	**MD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	**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	1,891.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
5,500.0	0.00	0.00	5,500.0	1,991.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
5,600.0	0.00	0.00	5,600.0	2,091.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
5,700.0	0.00	0.00	5,700.0	2,191.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
5,800.0	0.00	0.00	5,800.0	2,291.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
5,900.0	0.00	0.00	5,900.0	2,391.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,000.0	0.00	0.00	6,000.0	2,491.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,100.0	0.00	0.00	6,100.0	2,591.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,200.0	0.00	0.00	6,200.0	2,691.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,300.0	0.00	0.00	6,300.0	2,791.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,400.0	0.00	0.00	6,400.0	2,891.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,500.0	0.00	0.00	6,500.0	2,991.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,600.0	0.00	0.00	6,600.0	3,091.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,700.0	0.00	0.00	6,700.0	3,191.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,800.0	0.00	0.00	6,800.0	3,291.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
6,900.0	0.00	0.00	6,900.0	3,391.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,000.0	0.00	0.00	7,000.0	3,491.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,100.0	0.00	0.00	7,100.0	3,591.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,200.0	0.00	0.00	7,200.0	3,691.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,300.0	0.00	0.00	7,300.0	3,791.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,400.0	0.00	0.00	7,400.0	3,891.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,500.0	0.00	0.00	7,500.0	3,991.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,600.0	0.00	0.00	7,600.0	4,091.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,700.0	0.00	0.00	7,700.0	4,191.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,800.0	0.00	0.00	7,800.0	4,291.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
7,900.0	0.00	0.00	7,900.0	4,391.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
8,000.0	0.00	0.00	8,000.0	4,491.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County	TVD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	MD Reference:	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	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)
8,100.0	0.00	0.00	8,100.0	4,591.7	0.0	0.0	0.0	0.00	592,597 20	679,842 94
8,200.0	0.00	0.00	8,200.0	4,691.7	0.0	0.0	0.0	0.00	592,597.20	679,842.94
8,300.0	0 00	0.00	8,300 0	4,791.7	0.0	0.0	0 0	0 00	592,597 20	679,842 94
8,400 0	0.00	0 00	8,400.0	4,891.7	0 0	0.0	0.0	0.00	592,597 20	679,842.94
8,500.0	0 00	0 00	8,500 0	4,991 7	0.0	0.0	0.0	0 00	592,597.20	679,842.94
8,512 0	0.00	0 00	8,512 0	5,003.7	0 0	0.0	0.0	0 00	592,597 20	679,842.94
8,550.0	3.80	124 65	8,550.0	5,041.7	-0.7	1.0	1.1	10.00	592,596 48	679,843.98
8,600 0	8 80	124.65	8,599 7	5,091 4	-3.8	5 5	5 9	10.00	592,593 37	679,848 49
8,650.0	13 80	124 65	8,648 7	5,140 4	-9.4	13.6	14 6	10 00	592,587 80	679,856 55
8,700.0	18 80	124.65	8,696.6	5,188 3	-17.4	25.1	26.9	10 00	592,579 82	679,868 09
8,750 0	23 80	124 65	8,743 2	5,234 9	-27 7	40 1	42.9	10 00	592,569 50	679,883.02
8,800.0	28.80	124.65	8,788.0	5,279.7	-40 3	58.3	62.4	10.00	592,556 91	679,901 24
8,850 0	33.80	124 65	8,830.7	5,322.4	-55.1	79.7	85.3	10.00	592,542.14	679,922.60
8,900.0	38 80	124.65	8,871.0	5,362 7	-71 9	104.0	111 4	10.00	592,525 32	679,946.95
8,950.0	43.80	124.65	8,908.6	5,400 3	-90 6	131.1	140.5	10.00	592,506.56	679,974.09
9,000 0	48.80	124.65	8,943.1	5,434 8	-111 2	160 9	172 3	10.00	592,486 01	680,003.81
9,050 0	53 80	124 65	8,974 4	5,466.1	-133 4	193.0	206.7	10 00	592,463.83	680,035 90
9,100 0	58 80	124.65	9,002.1	5,493.8	-157.0	227.2	243 3	10 00	592,440.19	680,070.11
9,150 0	63.80	124.65	9,026 1	5,517.8	-181.9	263.2	281.9	10.00	592,415 26	680,106.18
9,200.0	68.80	124 65	9,046.2	5,537.9	-208.0	300.9	322.3	10.00	592,389.24	680,143 83
9,250.0	73.80	124 65	9,062.2	5,553.9	-234.9	339.8	364.0	10.00	592,362.32	680,182 78
9,300.0	78 80	124 65	9,074 0	5,565 7	-262.5	379.8	406 8	10 00	592,334 71	680,222 73
9,350.0	83.80	124.65	9,081.6	5,573.3	-290.6	420.4	450.3	10 00	592,306.62	680,263 37
9,400.0	88.80	124 65	9,084.8	5,576.5	-318.9	461.5	494.2	10 00	592,278.26	680,304.41
9,410 2	89.82	124 65	9,085 0	5,576 7	-324 7	469.9	503.2	10 00	592,272.46	680,312 80
9,500.0	89.82	121.06	9,085.2	5,576.9	-373.4	545.3	583.6	4.00	592,223.75	680,388.22
9,600.0	89 81	117.06	9,085.6	5,577.3	-422.0	632.7	675.9	4.00	592,175.19	680,475.62

Company:	Devon Energy, Inc	**Local Co-ordinate Reference:**	Well #4H
Project:	Eddy County	**TVD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	**MD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	**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)
9,700.0	89.81	113.06	9,085.9	5,577.6	-464.4	723.2	770.6	4.00	592,132.85	680,566.19
9,800.0	89.81	109.06	9,086.2	5,577.9	-500.3	816.5	867.4	4.00	592,096.93	680,659.49
9,900.0	89.81	105.06	9,086.5	5,578.2	-529.6	912.1	965.6	4.00	592,067.60	680,755.07
10,000.0	89.81	101.06	9,086.9	5,578.6	-552.2	1,009.5	1,064.9	4.00	592,045.01	680,852.46
10,100.0	89.81	97.06	9,087.2	5,578.9	-567.9	1,108.3	1,164.8	4.00	592,029.27	680,951.20
10,200.0	89.82	93.06	9,087.5	5,579.2	-576.7	1,207.8	1,264.8	4.00	592,020.45	681,050.79
10,276.4	89.82	90.00	9,087.8	5,579.5	-578.8	1,284.2	1,340.9	4.00	592,018.42	681,127.18
10,300.0	89.82	90.00	9,087.8	5,579.5	-578.8	1,307.8	1,364.3	0.00	592,018.42	681,150.75
10,400.0	89.82	90.00	9,088.2	5,579.9	-578.8	1,407.8	1,463.7	0.00	592,018.41	681,250.75
10,500.0	89.82	90.00	9,088.5	5,580.2	-578.8	1,507.8	1,563.1	0.00	592,018.41	681,350.75
10,600.0	89.82	90.00	9,088.8	5,580.5	-578.8	1,607.8	1,662.5	0.00	592,018.41	681,450.75
10,700.0	89.82	90.00	9,089.1	5,580.8	-578.8	1,707.8	1,761.8	0.00	592,018.41	681,550.75
10,800.0	89.82	90.00	9,089.4	5,581.1	-578.8	1,807.8	1,861.2	0.00	592,018.41	681,650.75
10,900.0	89.82	90.00	9,089.8	5,581.5	-578.8	1,907.8	1,960.6	0.00	592,018.41	681,750.75
11,000.0	89.82	90.00	9,090.1	5,581.8	-578.8	2,007.8	2,059.9	0.00	592,018.41	681,850.74
11,100.0	89.82	90.00	9,090.4	5,582.1	-578.8	2,107.8	2,159.3	0.00	592,018.41	681,950.74
11,200.0	89.82	90.00	9,090.7	5,582.4	-578.8	2,207.8	2,258.7	0.00	592,018.41	682,050.74
11,300.0	89.82	90.00	9,091.0	5,582.7	-578.8	2,307.8	2,358.1	0.00	592,018.41	682,150.74
11,400.0	89.82	90.00	9,091.3	5,583.0	-578.8	2,407.8	2,457.4	0.00	592,018.41	682,250.74
11,500.0	89.82	90.00	9,091.7	5,583.4	-578.8	2,507.8	2,556.8	0.00	592,018.41	682,350.74
11,600.0	89.82	90.00	9,092.0	5,583.7	-578.8	2,607.8	2,656.2	0.00	592,018.41	682,450.74
11,700.0	89.82	90.00	9,092.3	5,584.0	-578.8	2,707.8	2,755.5	0.00	592,018.41	682,550.74
11,800.0	89.82	90.00	9,092.6	5,584.3	-578.8	2,807.8	2,854.9	0.00	592,018.41	682,650.74
11,900.0	89.82	90.00	9,092.9	5,584.6	-578.8	2,907.8	2,954.3	0.00	592,018.40	682,750.74
12,000.0	89.82	90.00	9,093.2	5,584.9	-578.8	3,007.8	3,053.7	0.00	592,018.40	682,850.74
12,100.0	89.82	90.00	9,093.6	5,585.3	-578.8	3,107.8	3,153.0	0.00	592,018.40	682,950.74
12,200.0	89.82	90.00	9,093.9	5,585.6	-578.8	3,207.8	3,252.4	0.00	592,018.40	683,050.74

Company:	Devon Energy, Inc.	**Local Co-ordinate Reference:**	Well #4H
Project:	Eddy County	**TVD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Site:	Bellatrix "28" Federal Com	**MD Reference:**	KB = 26 @ 3508.3usft (H&P 300)
Well:	#4H	**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)
12,300.0	89.82	90.00	9,094.2	5,585.9	-578.8	3,307.8	3,351.8	0.00	592,018.40	683,150.74
12,400.0	89.82	90.00	9,094 5	5,586.2	-578.8	3,407.8	3,451.2	0.00	592,018.40	683,250.74
12,500 0	89.82	90.00	9,094 8	5,586 5	-578.8	3,507 8	3,550 5	0.00	592,018.40	683,350 74
12,600 0	89.82	90.00	9,095 1	5,586 8	-578.8	3,607.8	3,649.9	0.00	592,018.40	683,450.74
12,700 0	89.82	90.00	9,095 5	5,587.2	-578 8	3,707.8	3,749.3	0.00	592,018.40	683,550 74
12,800 0	89.82	90 00	9,095.8	5,587.5	-578.8	3,807 8	3,848.6	0 00	592,018.40	683,650.74
12,900.0	89.82	90 00	9,096.1	5,587.8	-578.8	3,907.8	3,948.0	0.00	592,018.40	683,750.74
13,000.0	89.82	90 00	9,096 4	5,588 1	-578 8	4,007.8	4,047.4	0.00	592,018 40	683,850 73
13,100 0	89.82	90.00	9,096.7	5,588.4	-578 8	4,107 8	4,146.8	0.00	592,018 40	683,950 73
13,200 0	89 82	90.00	9,097 0	5,588.7	-578.8	4,207.8	4,246.1	0.00	592,018 40	684,050.73
13,300 0	89.82	90.00	9,097.4	5,589.1	-578.8	4,307.8	4,345.5	0.00	592,018 40	684,150 73
13,400.0	89.82	90 00	9,097 7	5,589 4	-578 8	4,407.8	4,444.9	0.00	592,018 39	684,250.73
13,500 0	89.82	90.00	9,098.0	5,589.7	-578.8	4,507.8	4,544.2	0.00	592,018.39	684,350.73
13,600 0	89 82	90.00	9,098.3	5,590.0	-578.8	4,607.8	4,643.6	0.00	592,018.39	684,450 73
13,700.0	89.82	90 00	9,098 6	5,590.3	-578 8	4,707.8	4,743.0	0.00	592,018.39	684,550.73
13,800.0	89.82	90.00	9,098 9	5,590.6	-578 8	4,807 8	4,842.4	0 00	592,018 39	684,650 73
13,900 0	89.82	90 00	9,099.3	5,591.0	-578.8	4,907.8	4,941 7	0 00	592,018.39	684,750.73
14,000.0	89.82	90 00	9,099 6	5,591.3	-578.8	5,007.8	5,041.1	0.00	592,018.39	684,850.73
14,100.0	89.82	90.00	9,099.9	5,591.6	-578.8	5,107.8	5,140.5	0 00	592,018.39	684,950.73
14,134 9	89.82	90 00	9,100 0	5,591.7	-578.8	5,142 7	5,175.2	0 00	592,018 39	684,985 64

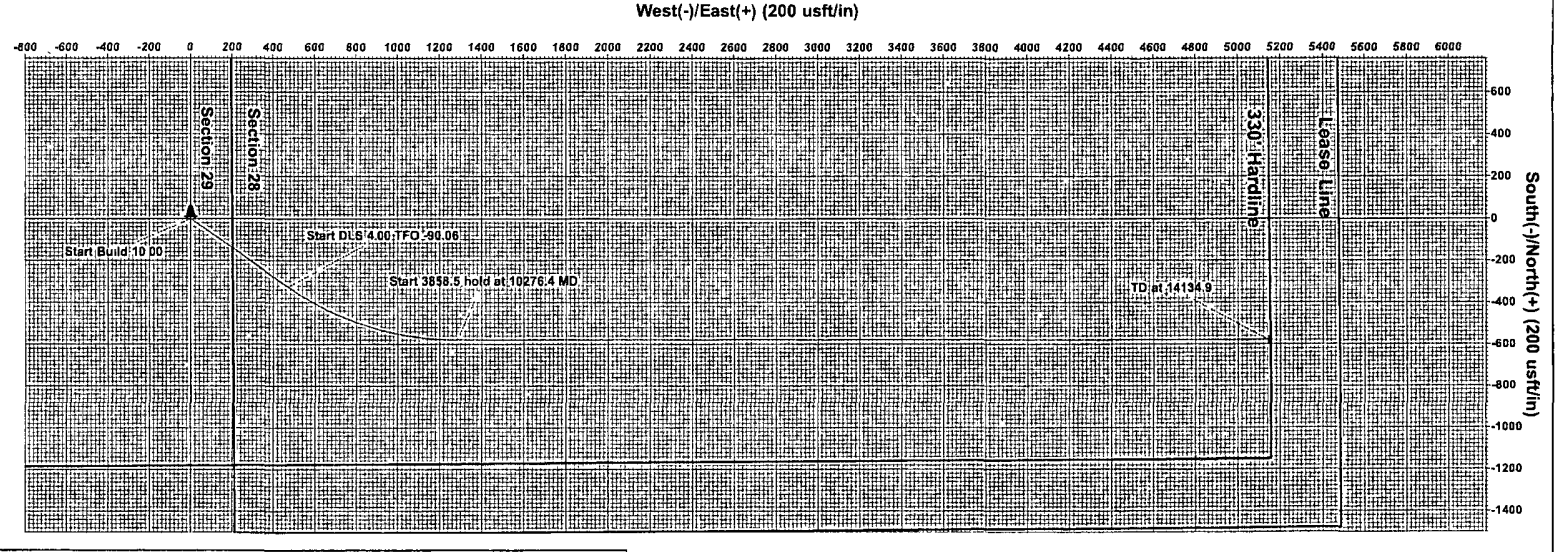
Checked By: _____ Approved By: _____ Date: _____

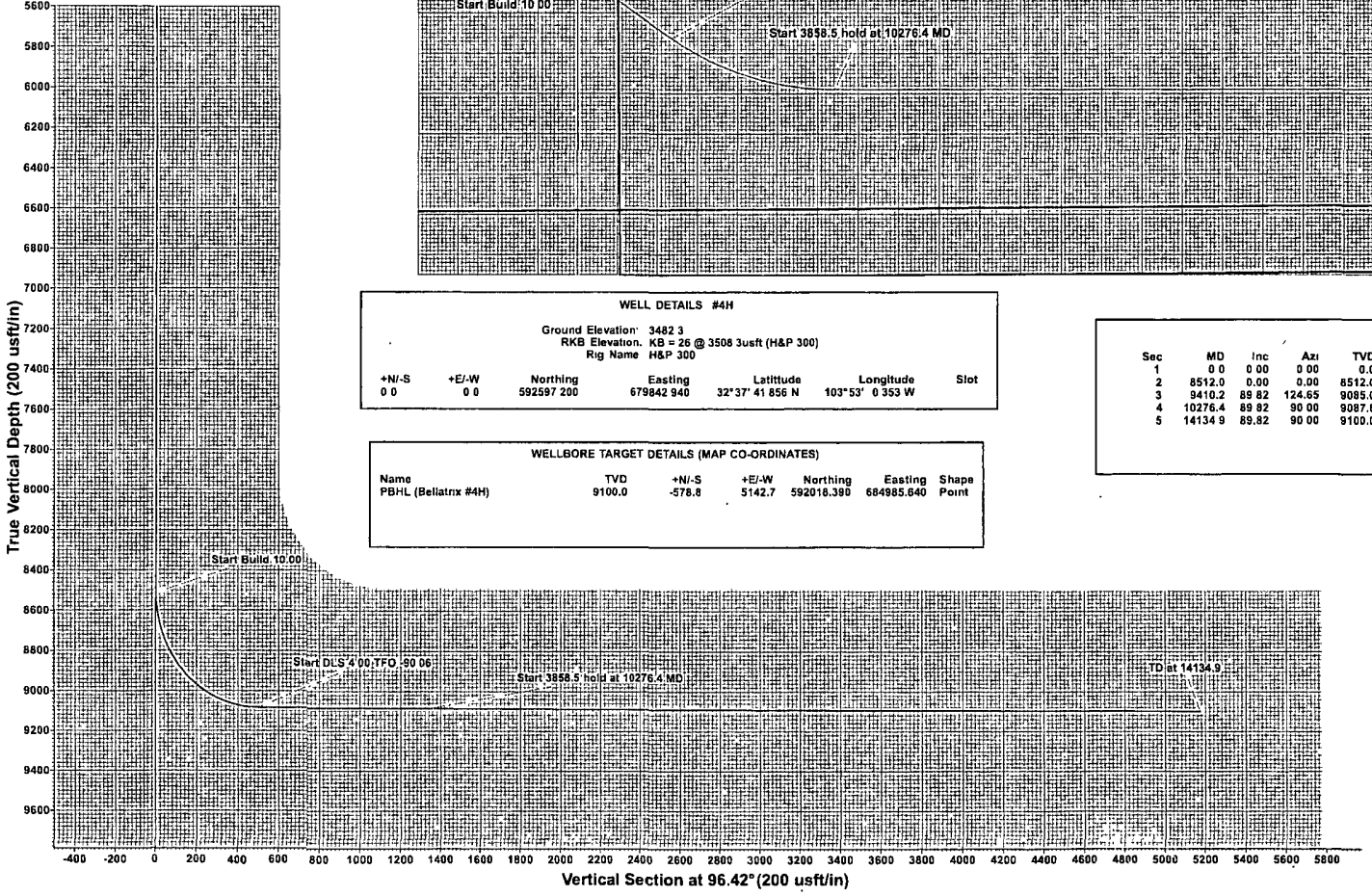
devon

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

PATHFINDER®
A Schlumberger Company

Project: Eddy County
Site: Bellatrix "28" Federal Com
Well: #4H
Wellbore: OH
Plan: Plan #1 (#4H/OH)





WELL DETAILS #4H

Ground Elevation: 3482.3
RKB Elevation: KB = 26 @ 3508.3usft (H&P 300)
Rig Name: H&P 300

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	592597.200	679842.940	32° 37' 41.856 N	103° 53' 0.353 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (Bellatrix #4H)	9100.0	-578.8	5142.7	592018.398	684985.640	Point

SECTION DETAILS

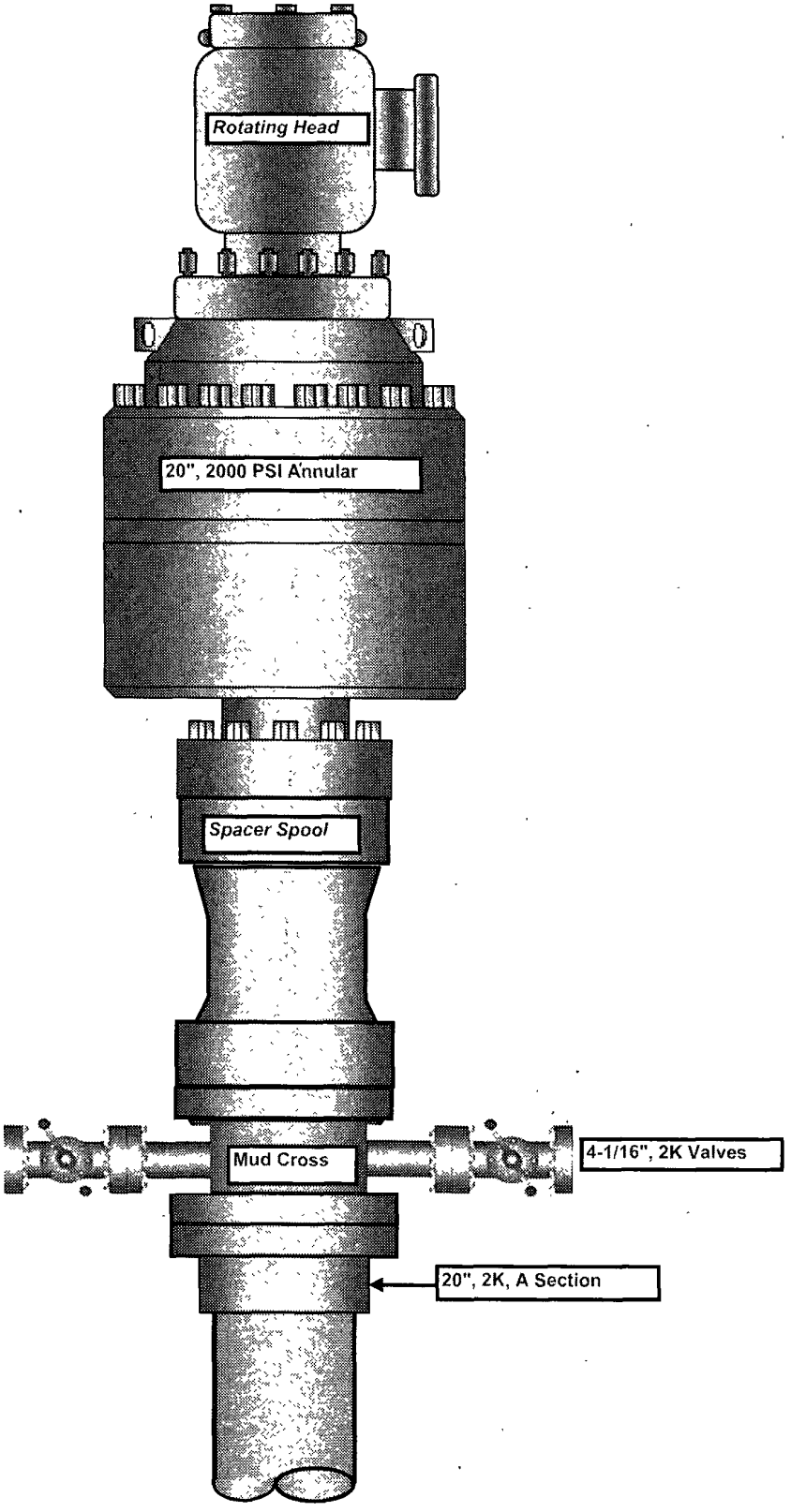
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8512.0	0.00	0.00	8512.0	0.0	0.0	0.00	0.00	0.0	
3	9410.2	89.82	124.65	9085.0	-324.7	469.9	10.00	124.65	503.2	
4	10276.4	89.82	90.00	9087.8	-578.8	1284.2	4.00	-90.08	1340.9	
5	14134.9	89.82	90.00	9100.0	-578.8	5142.7	0.00	0.00	5175.2	PBHL (Bellatrix #4H)

Azimuths to Grid North
True North: -0.24°
Magnetic North: 7.43°

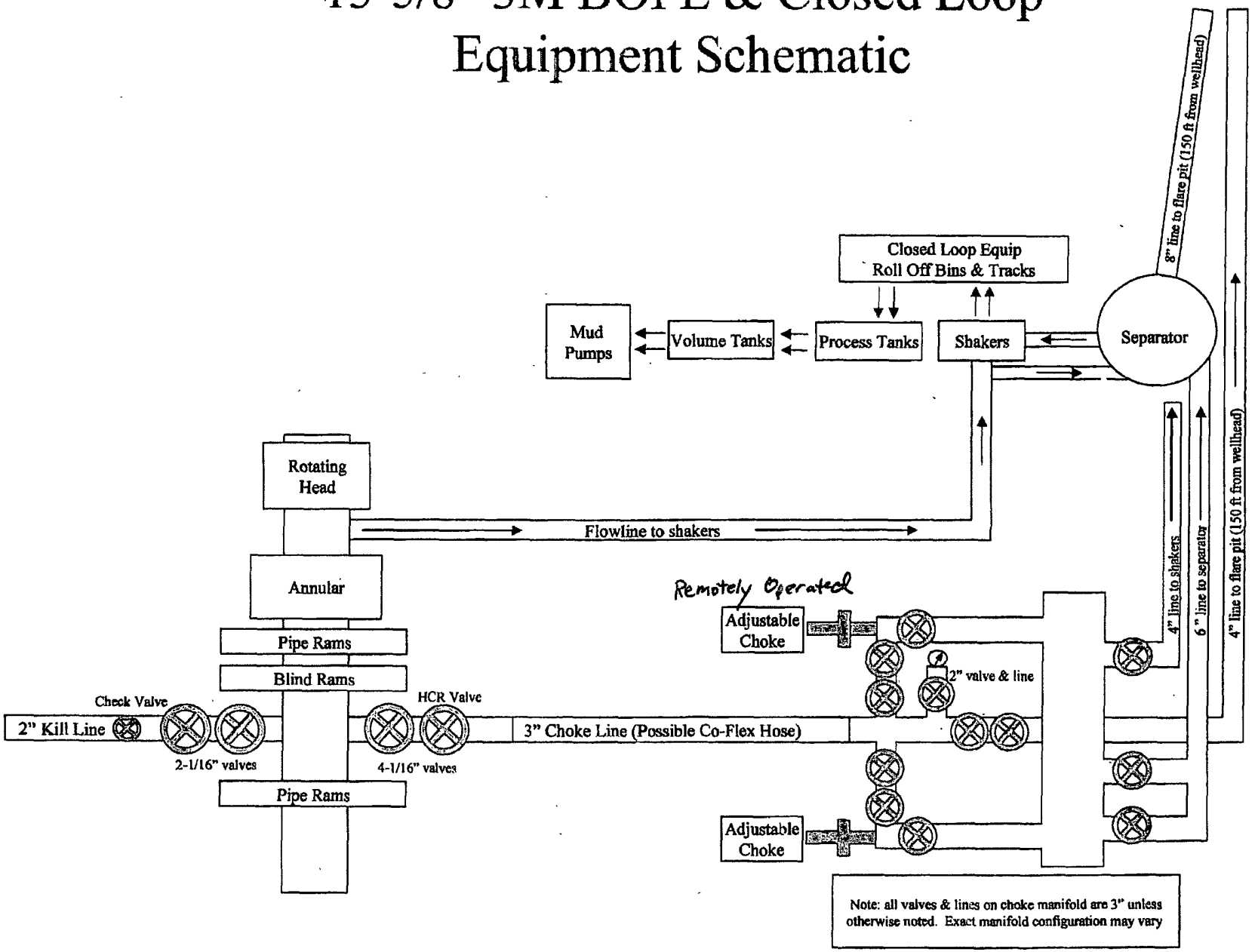
Magnetic Field
Strength: 48802.2snT
Dip Angle: 60.52°
Date: 1/25/2012
Model: IGRF200510

Plan: Plan #1 (#4H/OH)
Created By: Sam Bittle Date: 11.42, January 25 2012
Checked: _____ Date: _____

20" 2K Annular



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



Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Bellatrix 28 Fed Com 4H
Surface Location: 1510' FSL & 200' FEL, Unit I, Sec 29 T19S R31E, Eddy, NM
Bottom hole Location: 900' FSL & 340' FEL, Unit P, 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.

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.

Continental CONTITECH

Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

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

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

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

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

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

Hydrostatic Test Certificate

Continental CONTITECH

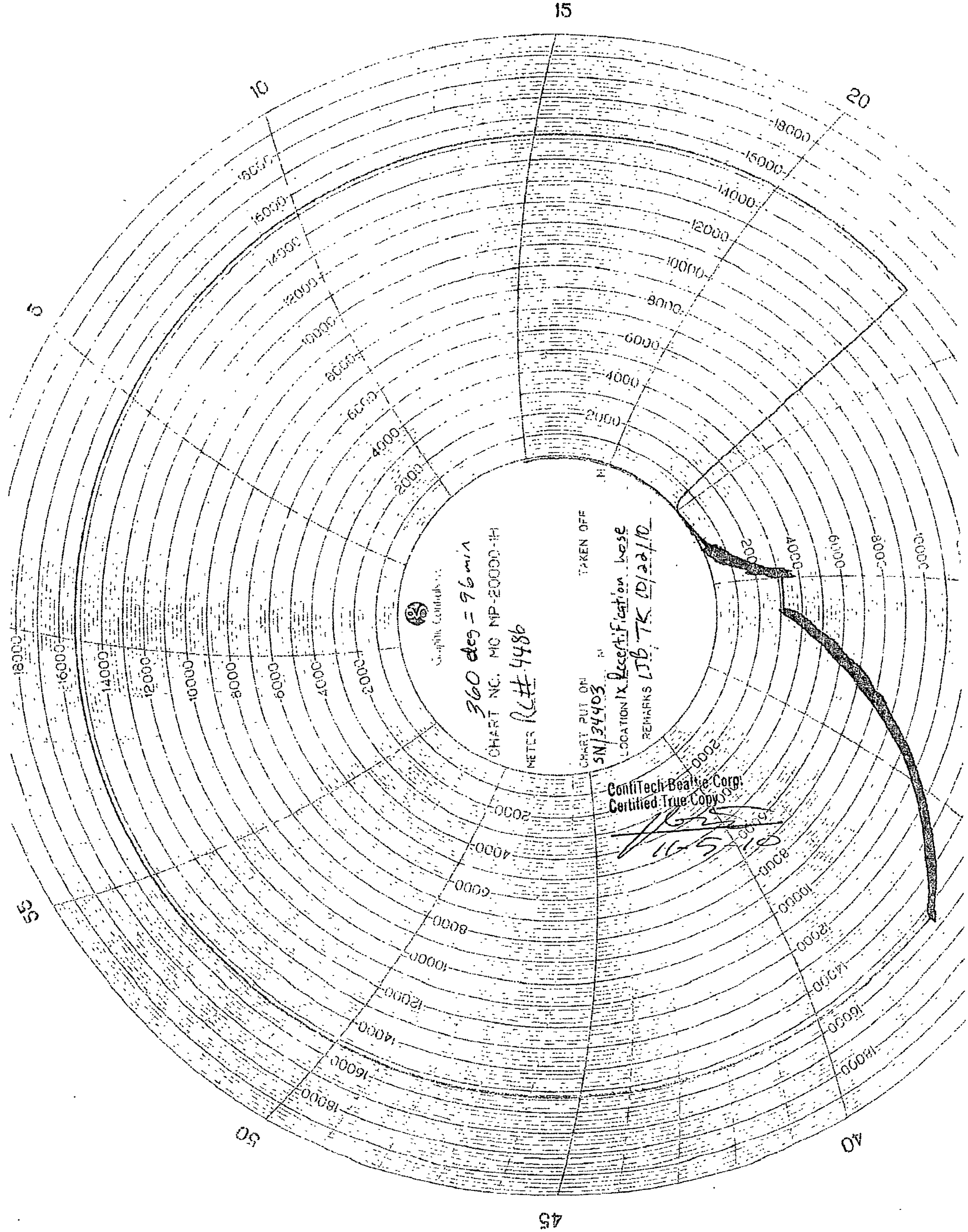
Certificate Number: 4520	**PBC No:** 10321	**Customer Name & Address**
Customer Purchase Order No:	RIG 300	HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		

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.

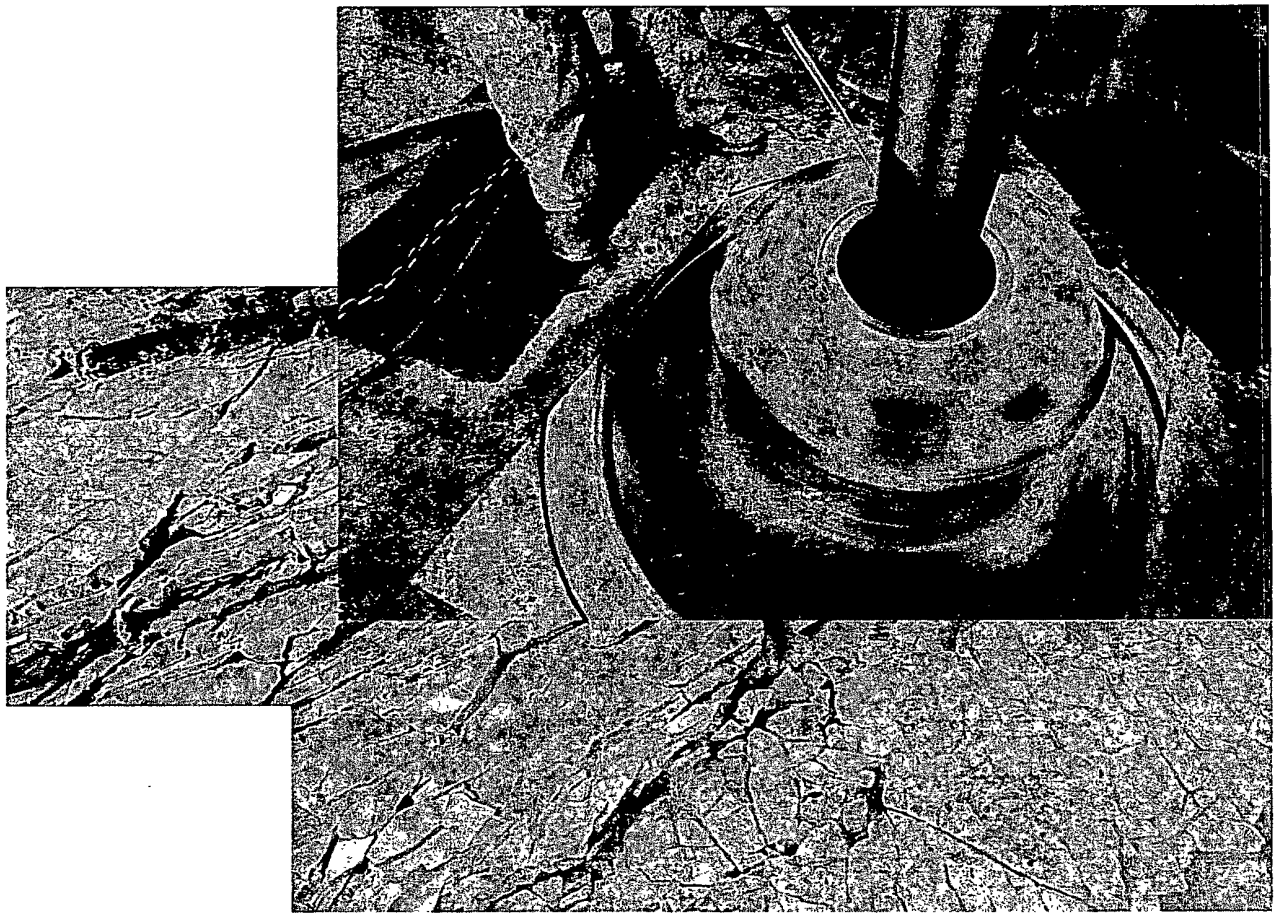
Item	Part No.	Description	Qnty	Serial Number	As Built Length (m)	Work Press.	Test Press.	Test Time (minutes)
1		3" ID 10K Choke & Kill Hose x 35ft OAL End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange Working Pressure: 10,000psi Test Pressure: 15,000psi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



360 deg = 96 min
CHART NO. MC MP-20000-1H
METER RC# 4486
CHART PUT ON SN 34403
TAKEN OFF
LOCATION 1x Recertification hose
REMARKS LTB TK 10/22/10
ContiTech Beattie Corp.
Certified True Copy

devon

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.

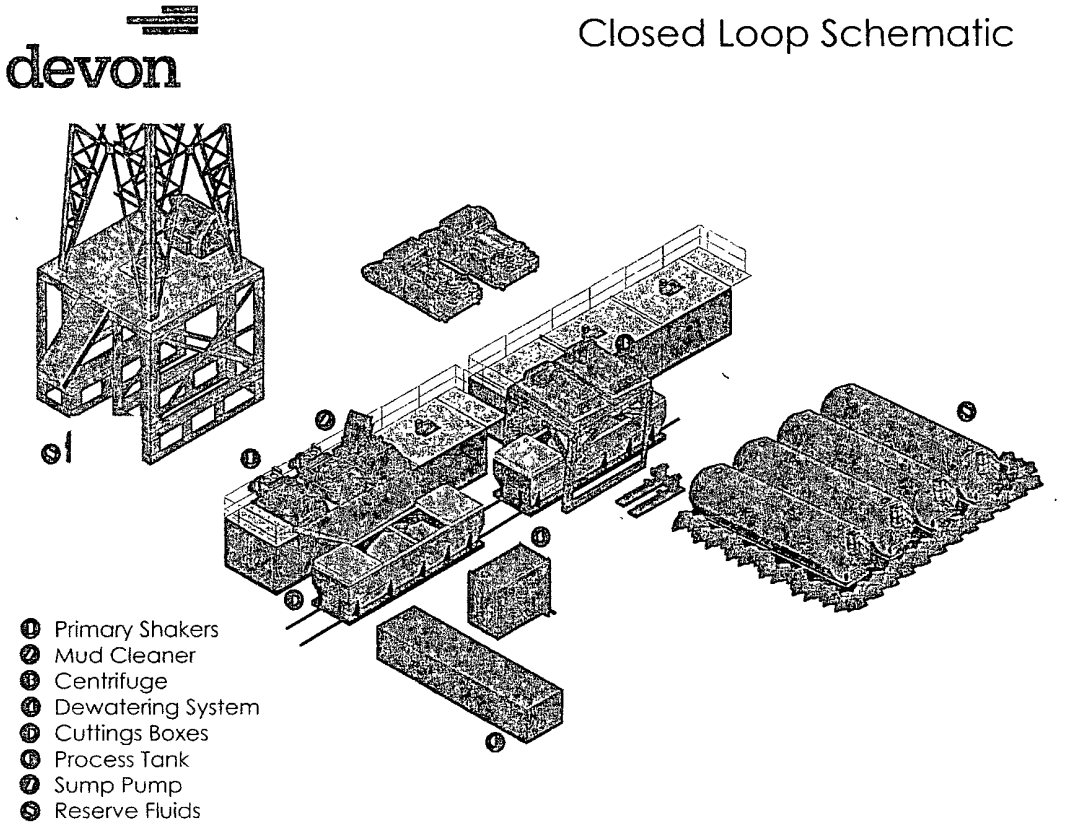
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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 dependant 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

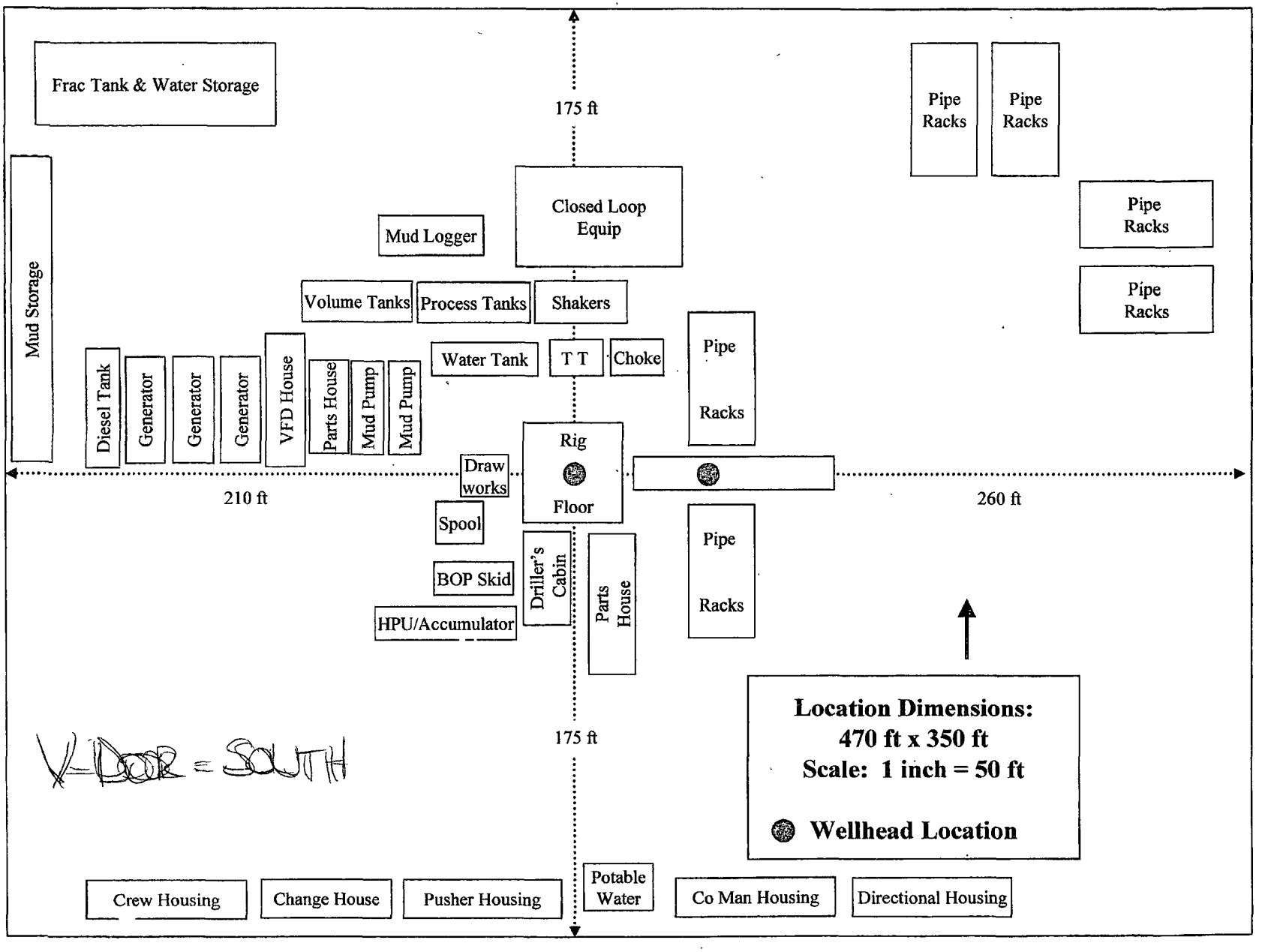
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

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.

H&P Flex Rig Location Layout
2 Well Pad



devon

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

Hydrogen Sulfide (H_2S) Contingency Plan

For

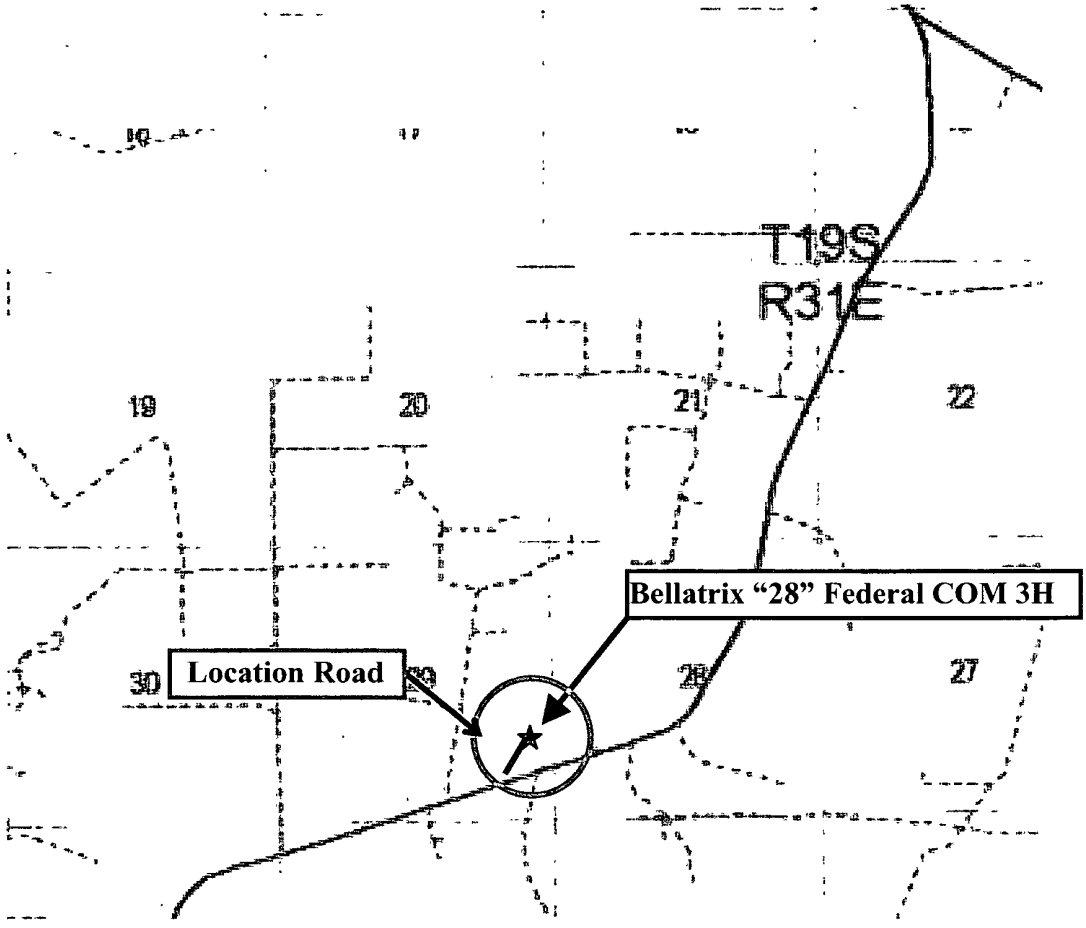
Bellatrix "28" Federal Com 4H

Sec-29, T-19S R-31E
1510' FSL & 200' FEL,
LAT. = 32.6282934'N (NAD83)
LONG = 103.8834314'W

Eddy County NM

Bellatrix "28" Federal COM 3H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S, including warning signs, wind indicators and H_2S monitor.



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. There **is** a home and road within or near the ROE. Steps should be taken, in the case of a gas release, to warn and protect those properties.

Assumed 100 ppm ROE = 3000'

100 ppm H_2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H_2S, 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 H_2S 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 H_2S, 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 (SO_2). 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

Characteristics of H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	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

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 Hernandez	748-0169	748-5238	746-2991
Asst. Foreman –Tommy Polly	748-5290	748-0165	748-2846
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	

Agency Call List

Lea County (575) — **Hobbs**

State Police	392-5588
City Police	397-9265
Sheriff's Office	393-2515
Ambulance	911
Fire Department	397-9308
LEPC (Local Emergency Planning Committee)	393-2870
NMOCD	393-6161
US Bureau of Land Management	393-3612

Eddy County (575) — **Carlsbad**

State Police	885-3137
City Police	885-2111
Sheriff's Office	887-7551
Ambulance	911
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

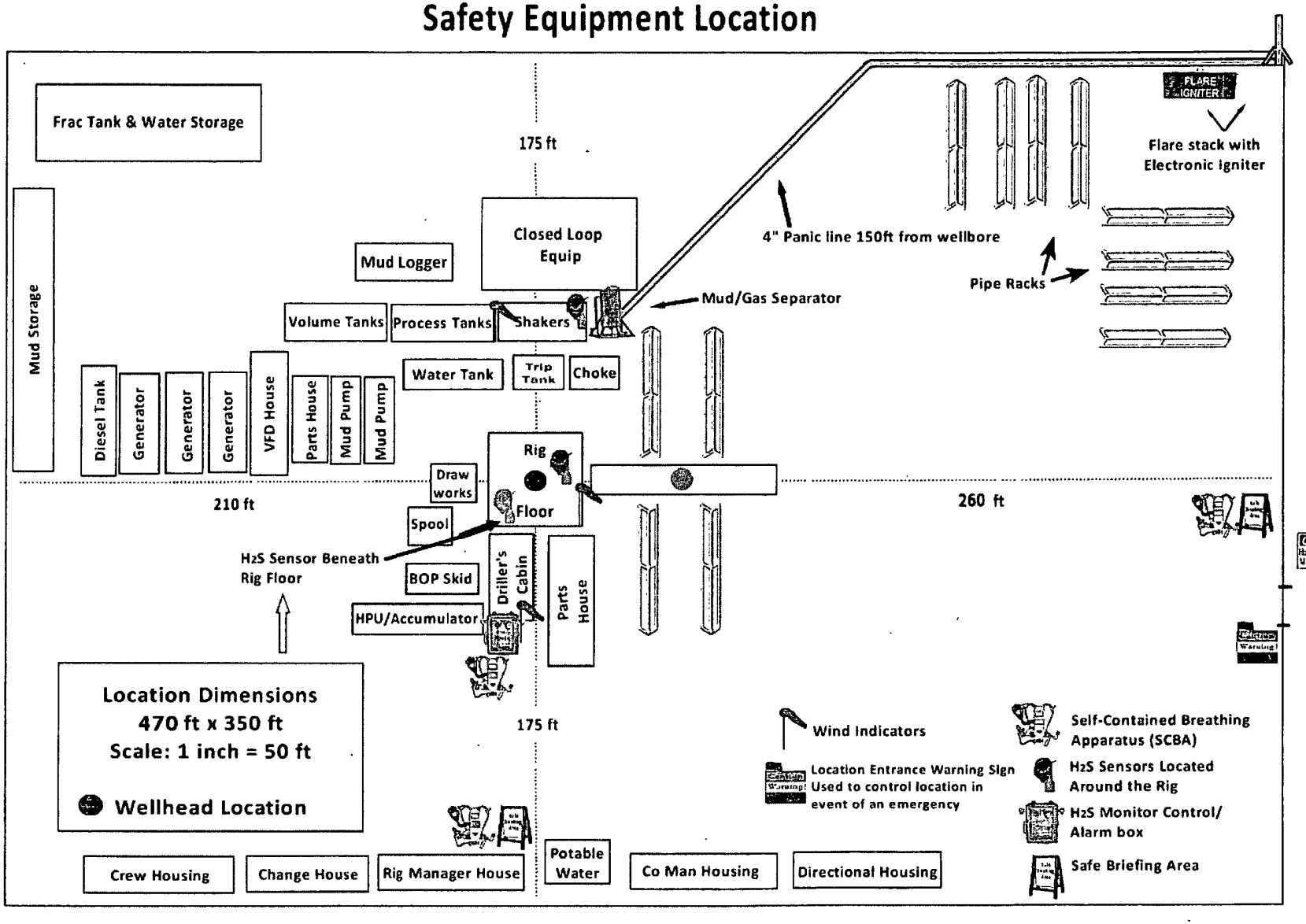
Boots & Coots IWC	1-800-256-9688 or (281) 931-8884
Cudd Pressure Control	(915) 699-0139 or (915) 563-3356
Halliburton	(575) 746-2757
B. J. Services	(575) 746-3569

Give GPS position:

Flight For Life - Lubbock, TX	(806) 743-9911
Aerocare - Lubbock, TX	(806) 747-8923
Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
Lifeguard Air Med Svc. Albuquerque, NM	(575) 272-3115

Prepared in conjunction with
Wade Rohloff

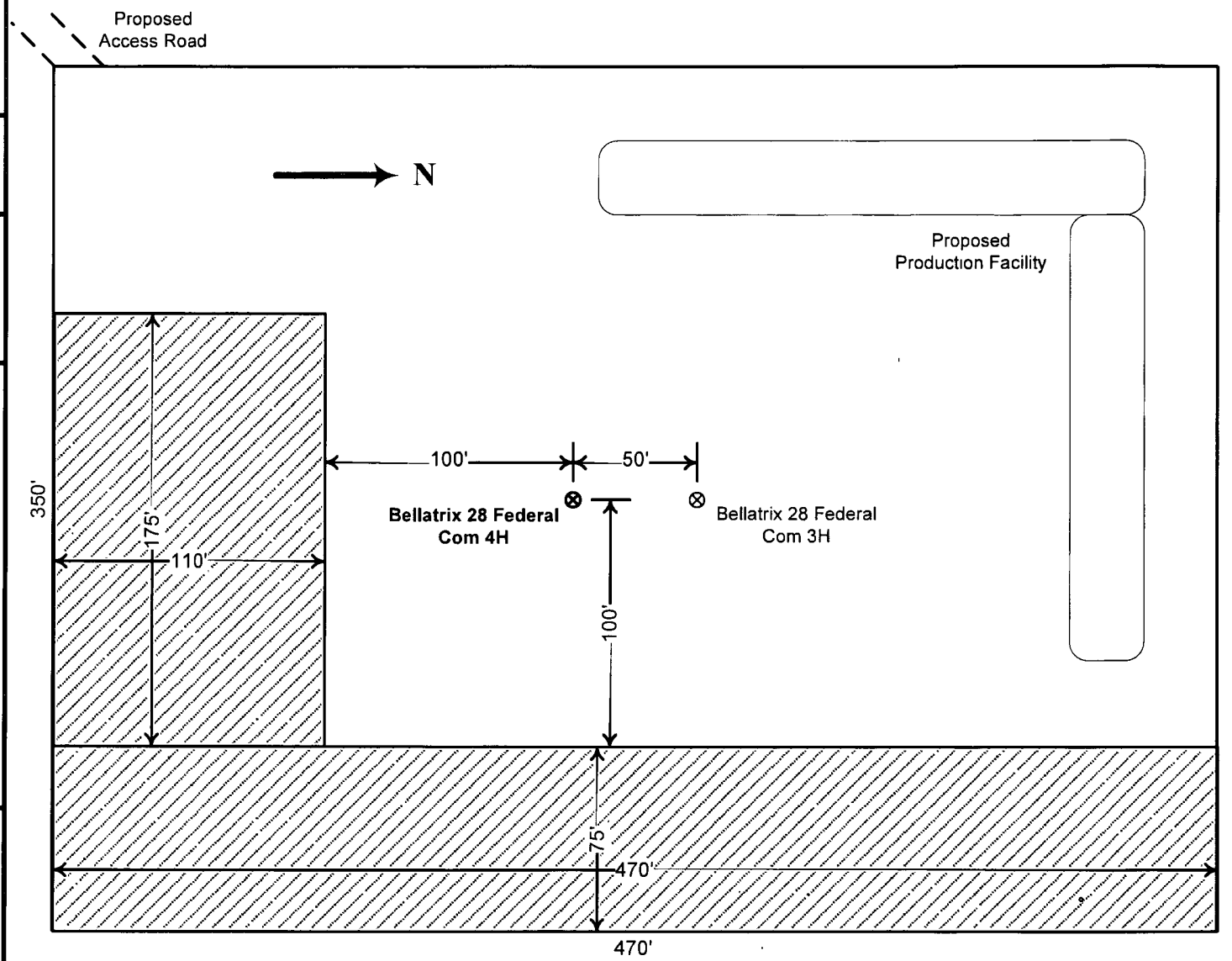
Devon Energy - 2 Well Pad
Rig Location Layout
Safety Equipment Location



devon

Proposed Interim Site Reclamation

Devon Energy Production Co.
Bellatrix 28 Federal Com 4H
1510' FSL & 200' FEL
Sec. 29-T19S-R31E
Eddy County, NM



Proposed Reclamation Area

Scale: 1in = 60ft.

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY
LEASE NO.:	NM101113
WELL NAME & NO.:	4H BELLATRIX 28 FED COM
SURFACE HOLE FOOTAGE:	1510' FSL & 200' FEL
BOTTOM HOLE FOOTAGE	900' 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.