

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

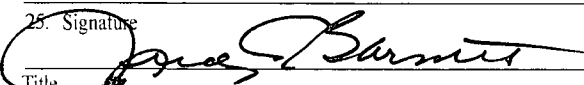
OCD Artesia

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM-44594 BHL-NM 92767	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name TES 2/1/2008	
2. Name of Operator Devon Energy Production, Company L. P.		7. If Unit or CA Agreement, Name and No.	
3a. Address 333 W. Sheridan Oklahoma City, OK 73102		8. Lease Name and Well No. Aquila 22 Fed Com 3H <394/4>	
3b. Phone No. (include area code) 405-235-3611		9. API Well No. 30-015-41035	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface I 2080 FSL & 225 FEL At proposed prod. zone L 1980 FSL & 340 FWL		10. Field and Pool, or Exploratory Lusk; Bone Spring W. <41480>	
14. Distance in miles and direction from nearest town or post office* Approximately 14 miles southeast of Loco Hills, NM.		11. Sec., T. R. M. or Blk. and Survey or Area SEC 22 T19S R31E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 50'		12. County or Parish Eddy	
16. No. of acres in lease 520 Ac + 120 = 640		13. State NM	
17. Spacing Unit dedicated to this well 160			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. See attached map		20. BLM/BIA Bond No. on file CO-1104; NMB 000801	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3542' GL		22. Approximate date work will start*	
23. Estimated duration 45 days			
24. Attachments To be pad drilled with the Agasti 27 Federal 1H			

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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature 	Name (Printed/Typed) Judy A. Barnett	Date 10/05/2012
Title Regulatory Specialist		
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date JAN 24 2013
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

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

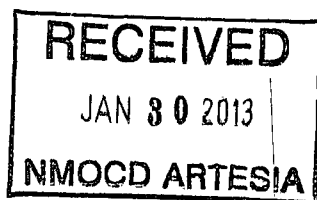
APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

COPY

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

API Number 30-015-41035		Pool Code 41480		Pool Name LUSK; BONE SPRING W.	
Property Code 39414		Property Name AQUILA 22 FED COM		Well Number 3H	
OGRID No. 6137		Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		Elevation 3542.0	

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	22	19 S	31 E		2080	SOUTH	225	EAST	EDDY

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
L	22	19 S	31 E		1980	SOUTH	340	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			24 13610

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.

589°39'32"W 2638.96 FT NW CORNER SEC. 22 LAT. = 32.6531943°N LONG. = 103.8657142°W NMSP EAST (FT) N = 601670.93 E = 635257.48 W O CORNER SEC. 22 LAT. = 32.6450383°N LONG. = 103.8656906°W NMSP EAST (FT) N = 595040.17 E = 685276.29 BOTTOM OF HOLE LAT. = 32.6441334°N LONG. = 103.8645608°W NMSP EAST (FT) N = 596381.38 E = 685620.87 SW CORNER SEC. 22 (COMPUTED) LAT. = 32.6386705°N LONG. = 103.8656631°W NMSP EAST (FT) N = 596339.77 E = 685294.91		589°39'00"W 2641.25 FT NE CORNER SEC. 22 LAT. = 32.6532187°N LONG. = 103.8485583°W NMSP EAST (FT) N = 601711.78 E = 690537.57 E O CORNER SEC. 22 LAT. = 32.6459648°N LONG. = 103.8435371°W NMSP EAST (FT) N = 599075.48 E = 690556.15 SURFACE LOCATION ELEV. = 3542.0' LAT. = 32.6444208°N (MAD53) LONG. = 103.8492830°W NMSP EAST (FT) N = 596310.73 E = 690335.29 SE CORNER SEC. 22 LAT. = 32.6387059°N LONG. = 103.8485136°W NMSP EAST (FT) N = 596432.63 E = 690575.45		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 released 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. <i>Judy A. Barnett</i> 10/5/12 Signature Date Printed Name Judy A. Barnett Regulatory Specialist	
509°24'32"E 2639.83 FT 509°24'14"E 2640.47 FT		100°24'12"W 2638.16 FT 100°25'08"W 2640.02 FT		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. MAY 24, 2012 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: PULMON, E. JARAMILLO, PLS 12797 SURVEY NO. 1040	

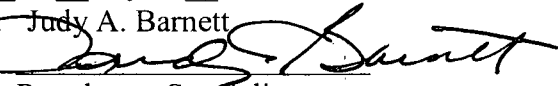
Certification

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 5th day of October, 2012.

Printed Name: Judy A. Barnett

Signed Name: 

Position Title: Regulatory Specialist

Address: 333 W. Sheridan, OKC OK 73102

Telephone: (405)-228-8699

Field Representative (if not above signatory):

Address (if different from above):

Telephone (if different from above):

DRILLING PROGRAM

Devon Energy Production Company, LP
Aquila 22 Fed Com 3H

Surface Location: 2080' FSL & 225' FEL, Unit I, Sec 22 T19S R31E, Eddy, NM
Bottom Hole Location: 1980' FSL & 340' FWL, Unit L, Sec 22 T19S R31E, Eddy, NM

1. Geologic Name of Surface Formation

a. Quaternary Alluvium

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

a. Fresh Water	170'	
b. Rustler	585'	Barren
c. Salado	835'	Barren
d. Tansil Dolomite	2240'	Barren
e. Yates	2340'	Barren
f. Seven Rivers	2560'	Barren
g. Capitan	2675'	Barren
h. B/Capitan	4100'	Barren
i. Delaware	4540'	Oil
j. Bone Spring	6955'	Oil
k. 1 st Bone Spring Ss	8265'	Oil
l. 2 nd Bone Spring Lime	8520'	Oil
m. 2 nd Bone Spring Ss	8995'	Oil
n. 2 nd Bone Spring Up'r Ss	9035'	Oil
o. 2 nd Bone Spring Up'r Ss Base	9115'	Oil
p. 2 nd Bone Spring Middle Ss	9130'	Oil
q. 2 nd Bone Spring Middle Ss Base	9205'	Oil
r. 3 rd Bone Spring Lm	9385'	Oil
Total Depth	13,610'	

Casing Program: All casing is new and API approved

<u>Hole</u> <u>Size</u>	<u>Hole</u> <u>Interval</u>	<u>OD Csg</u>	<u>Casing</u> <u>Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
26"	0 - 650'	20"	0'-650'	94#	BT&C	J/K-55
17 1/2"	650- 2500'	13 3/8"	0'-2500'	68#	BT&C	J/K-55
12 1/4"	2500-4300'	9 5/8"	0'-4300'	40#	LT&C	J-55
8 3/4"	4300'-8300'	5 1/2"	0'-8300'	17#	LT&C	HCP110
8 3/4"	8300-13610	5 1/2"	8300-13610'	17#	BT&C	HCP110

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design</u>	<u>Burst Design</u>	<u>Tension Design</u>
	<u>Factor</u>	<u>Factor</u>	<u>Factor</u>
20"	1.71	6.94	22.95
13 3/8"	1.67	2.95	6.71
9 5/8"	1.15	1.77	3.02
5 1/2"	2.14	2.65	1.92
5 1/2"	2.01	2.49	6.63

3. Cement Program: (volumes based on at least 25% excess)

String	Slurry	Amount and Type of Cement
Surface	Lead	800 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.1% Fresh Water, 13.5 ppg, 1.73 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)
13-3/8" Intermediate	Lead	1340 sacks (60:40) Poz (Fly Ash):Class C Cement +5% bwow Sodium Chloride + 0.4% bwoc R-3 +0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate+ 89.5% Fresh Water, 12.6 ppg, 1.74 cf/sk (TOC: Surface)
	Tail	450 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.5% bwoc Sodium Metasilicate + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 65.3% Fresh Water, 13.8 ppg, 1.38 cf/sk
9-5/8" Intermediate	1st STAGE	
	Lead	480 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.3% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 89.6% Fresh Water, 12.6 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 + 65.2% Fresh Water, 13.8 ppg, 1.38 cf/sk
	2nd STAGE – DV tool and ECP at 2,600' (min 50' ^{below} from 13 3/8" Shoe)	
	Lead	450 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.3% bwoc R-3 + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 0.25% bwoc FL-52 + 1% bwoc Sodium Metasilicate + 89.6% Fresh Water, 12.6 ppg, 1.73 cf/sk (TOC: Surface)
	Tail	150 sacks (60:40)Poz Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.1% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.2% Water, 13.8 ppg, 1.38 cf/sk
Production	1st STAGE	
	Lead	660 sacks (35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.7% bwoc FL-52 + 0.3% bwoc ASA-301 + 6% bwoc Bentonite + 105.5% Fresh Water, 12.5 ppg, 2.01 cf/sk
	Tail	1365 sacks (50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.25% bwoc Sodium Metasilicate + 57.2% Fresh Water, 14.2 ppg, 1.28 cf/sk
	2nd STAGE – DV tool at 5,500'	
	Lead	400 sacks Class C Cement + 1% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.3% bwoc FL-52 + 3% bwoc Sodium Metasilicate + 157% Fresh Water, 11.4 ppg, 2.88 cf/sk TOC: 2000' (675' above reef top)
	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

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 each of the previous casing shoes. All tests will be in accordance with BLM Onshore Oil and Gas Order No. 2.

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.

Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 - 650'	8.4-9.0	28-34	NC	FW
650- 2500'	9.8-10	28-32	NC	Brine
2500-4300'	8.4-9.0	28-32	NC	FW
4300-13,610'	8.6-9.0	28-32	NC-12	FW

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

4. 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 13 3/8" shoe until total depth is reached.

5. 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.

6. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3800 psi and Estimated BHT 140°. No H₂S is anticipated to be encountered.

7. 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.



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Devon Energy, Inc.

Eddy County (NAD83)

Aquila 22 Fed Com

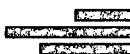
#3H

OH

Plan: Plan #1

Pathfinder X&Y Report

02 October, 2012


devon



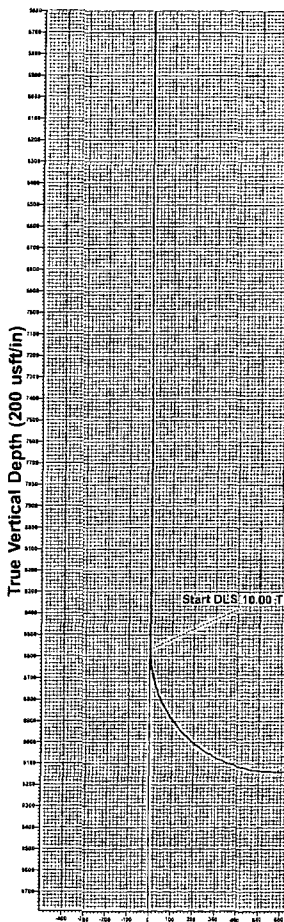
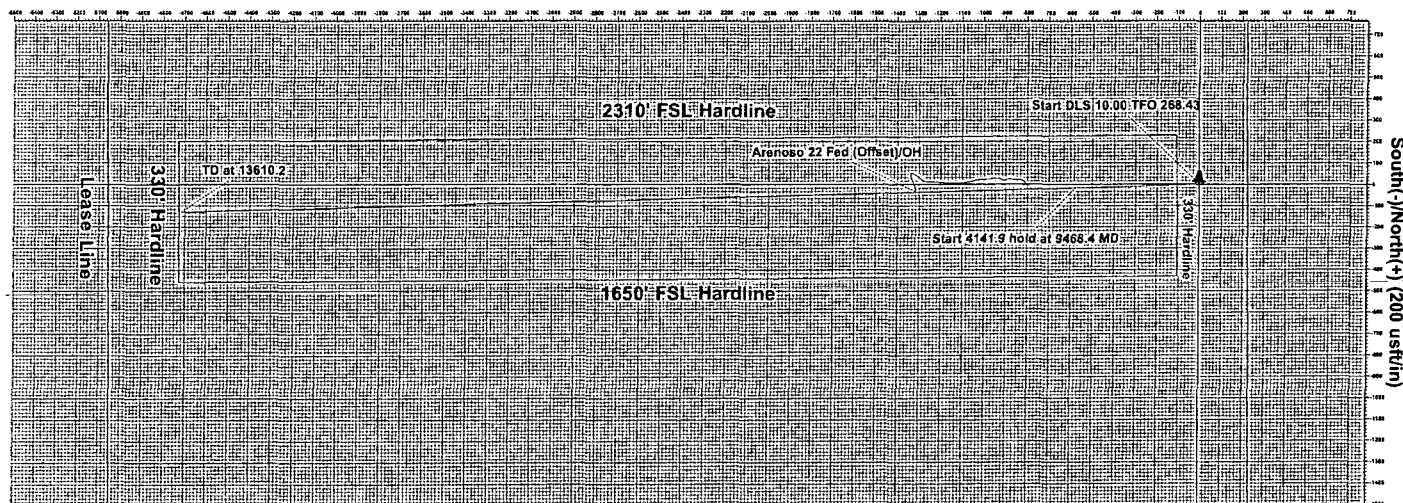
PROJECT DETAILS: Eddy County (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid



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Project: Eddy County (NAD83)
Site: Aquila 22 Fed Com
Well: #3H
Wellbore: OH
Plan: Plan #1 (#3H/OH)

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



WELL DETAILS: #3H						
Ground Elevation: 3542.0						
RKB Elevation: KB = 26' @ 3568.0usft (H&P300)						
Rig Name: H&P300						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	598510.730	690335.290	32.644421	-103.849263	

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	8567.0	0.00	0.00	8567.0	0.0	0.0	0.00	0.00	0.0
3	9468.4	90.14	268.43	9140.0	-15.8	-574.1	10.00	268.43	574.3
4	13610.2	90.14	268.43	9130.0	-129.3	-4714.4	0.00	0.00	4716.2 PBHL (Aquila 22 #3H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	+N/-S	+E/-W	Northing	Easting Shape
PBHL (Aquila 22 #3H)	9130.0	-129.3	-4714.4	598361.380	685620.870 Point



Azimuths to Grid North
True North: -0.26°
Magnetic North: 7.32°

Magnetic Field
Strength: 48749.1snT
Dip Angle: 60.52°
Date: 10/2/2012
Model: IGRF200510

Vertical Section at 268.43° (200 usft/in)

Plan: Plan #1 (#3H/OH)

Created By: Michael Trout Date: 14:31, October 02 2012

Checked: _____ Date: _____

Small text block containing additional project information and a signature line.



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Pathfinder
Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26' @ 3568.0usft (H&P300)
Site:	Aquila 22 Fed Com	MD Reference:	KB = 26' @ 3568.0usft (H&P300)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

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

Site	Aquila 22 Fed Com		
Site Position:		Northing:	600,721.700 usft
From:	Map	Easting:	690,494.540 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.650496
		Longitude:	-103.848713
		Grid Convergence:	0.26 °

Well	#3H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	598,510.730 usft
Position Uncertainty	0.0 usft		Latitude:
		Wellhead Elevation:	690,335.290 usft
			Longitude:
			-103.849263
			Ground Level:
			3,542.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	10/2/2012	(°)
			7.58
			Dip Angle
			(°)
			60.52
			Field Strength
			(nT)
			48,749

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			268.43



A Schlumberger Company

Pathfinder
Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Aquila 22 Fed Com
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #3H
TVD Reference: KB = 26' @ 3568.0usft (H&P300)
MD Reference: KB = 26' @ 3568.0usft (H&P300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Tool Program	Date	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
	10/2/2012	0.0	8,567.0	Plan #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s
		8,567.0	13,610.2	Plan #1 (OH)	MWD	MWD - Standard

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Latitude (")	Longitude (")
0.0	0.00	0.00	0.0	-3.568.0	0.0	0.0	0.0	0.00	32.64	-103.85
100.0	0.00	0.00	100.0	-3.468.0	0.0	0.0	0.0	0.00	32.64	-103.85
200.0	0.00	0.00	200.0	-3.368.0	0.0	0.0	0.0	0.00	32.64	-103.85
300.0	0.00	0.00	300.0	-3.268.0	0.0	0.0	0.0	0.00	32.64	-103.85
400.0	0.00	0.00	400.0	-3.168.0	0.0	0.0	0.0	0.00	32.64	-103.85
500.0	0.00	0.00	500.0	-3.068.0	0.0	0.0	0.0	0.00	32.64	-103.85
600.0	0.00	0.00	600.0	-2.968.0	0.0	0.0	0.0	0.00	32.64	-103.85
700.0	0.00	0.00	700.0	-2.868.0	0.0	0.0	0.0	0.00	32.64	-103.85
800.0	0.00	0.00	800.0	-2.768.0	0.0	0.0	0.0	0.00	32.64	-103.85
900.0	0.00	0.00	900.0	-2.668.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,000.0	0.00	0.00	1,000.0	-2.568.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,100.0	0.00	0.00	1,100.0	-2.468.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,200.0	0.00	0.00	1,200.0	-2.368.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,300.0	0.00	0.00	1,300.0	-2.268.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,400.0	0.00	0.00	1,400.0	-2.168.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,500.0	0.00	0.00	1,500.0	-2.068.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,600.0	0.00	0.00	1,600.0	-1.968.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,700.0	0.00	0.00	1,700.0	-1.868.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,800.0	0.00	0.00	1,800.0	-1.768.0	0.0	0.0	0.0	0.00	32.64	-103.85
1,900.0	0.00	0.00	1,900.0	-1.668.0	0.0	0.0	0.0	0.00	32.64	-103.85
2,000.0	0.00	0.00	2,000.0	-1.568.0	0.0	0.0	0.0	0.00	32.64	-103.85

Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26' @ 3568.0usft (H&P300)
Site:	Aquila 22 Fed Com	MD Reference:	KB = 26' @ 3568.0usft (H&P300)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (/100usft)	Latitude (°)	Longitude (°)	
2,100.0	0.00	0.00	2,100.0	-1,468.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,200.0	0.00	0.00	2,200.0	-1,368.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,300.0	0.00	0.00	2,300.0	-1,268.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,400.0	0.00	0.00	2,400.0	-1,168.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,500.0	0.00	0.00	2,500.0	-1,068.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,600.0	0.00	0.00	2,600.0	-968.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,700.0	0.00	0.00	2,700.0	-868.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,800.0	0.00	0.00	2,800.0	-768.0	0.0	0.0	0.0	0.00	32.64	-103.85	
2,900.0	0.00	0.00	2,900.0	-668.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,000.0	0.00	0.00	3,000.0	-568.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,100.0	0.00	0.00	3,100.0	-468.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,200.0	0.00	0.00	3,200.0	-368.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,300.0	0.00	0.00	3,300.0	-268.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,400.0	0.00	0.00	3,400.0	-168.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,500.0	0.00	0.00	3,500.0	-68.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,600.0	0.00	0.00	3,600.0	32.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,700.0	0.00	0.00	3,700.0	132.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,800.0	0.00	0.00	3,800.0	232.0	0.0	0.0	0.0	0.00	32.64	-103.85	
3,900.0	0.00	0.00	3,900.0	332.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,000.0	0.00	0.00	4,000.0	432.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,100.0	0.00	0.00	4,100.0	532.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,200.0	0.00	0.00	4,200.0	632.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,300.0	0.00	0.00	4,300.0	732.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,400.0	0.00	0.00	4,400.0	832.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,500.0	0.00	0.00	4,500.0	932.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,600.0	0.00	0.00	4,600.0	1,032.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,700.0	0.00	0.00	4,700.0	1,132.0	0.0	0.0	0.0	0.00	32.64	-103.85	



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Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Aquila 22 Fed Com
Well: #3H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #3H
TVD Reference: KB = 26' @ 3568.0usft (H&P300)
MD Reference: KB = 26' @ 3568.0usft (H&P300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Latitude (°)	Longitude (°)	
4,800.0	0.00	0.00	4,800.0	1,232.0	0.0	0.0	0.0	0.00	32.64	-103.85	
4,900.0	0.00	0.00	4,900.0	1,332.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,000.0	0.00	0.00	5,000.0	1,432.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,100.0	0.00	0.00	5,100.0	1,532.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,200.0	0.00	0.00	5,200.0	1,632.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,300.0	0.00	0.00	5,300.0	1,732.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,400.0	0.00	0.00	5,400.0	1,832.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,500.0	0.00	0.00	5,500.0	1,932.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,600.0	0.00	0.00	5,600.0	2,032.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,700.0	0.00	0.00	5,700.0	2,132.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,800.0	0.00	0.00	5,800.0	2,232.0	0.0	0.0	0.0	0.00	32.64	-103.85	
5,900.0	0.00	0.00	5,900.0	2,332.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,000.0	0.00	0.00	6,000.0	2,432.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,100.0	0.00	0.00	6,100.0	2,532.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,200.0	0.00	0.00	6,200.0	2,632.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,300.0	0.00	0.00	6,300.0	2,732.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,400.0	0.00	0.00	6,400.0	2,832.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,500.0	0.00	0.00	6,500.0	2,932.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,600.0	0.00	0.00	6,600.0	3,032.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,700.0	0.00	0.00	6,700.0	3,132.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,800.0	0.00	0.00	6,800.0	3,232.0	0.0	0.0	0.0	0.00	32.64	-103.85	
6,900.0	0.00	0.00	6,900.0	3,332.0	0.0	0.0	0.0	0.00	32.64	-103.85	
7,000.0	0.00	0.00	7,000.0	3,432.0	0.0	0.0	0.0	0.00	32.64	-103.85	
7,100.0	0.00	0.00	7,100.0	3,532.0	0.0	0.0	0.0	0.00	32.64	-103.85	
7,200.0	0.00	0.00	7,200.0	3,632.0	0.0	0.0	0.0	0.00	32.64	-103.85	
7,300.0	0.00	0.00	7,300.0	3,732.0	0.0	0.0	0.0	0.00	32.64	-103.85	
7,400.0	0.00	0.00	7,400.0	3,832.0	0.0	0.0	0.0	0.00	32.64	-103.85	



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Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26' @ 3568.0usft (H&P300)
Site:	Aquila 22 Fed Com	MD Reference:	KB = 26' @ 3568.0usft (H&P300)
Well:	#3H	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)	D Lag (/100usft)	Latitude (°)	Longitude (°)		
7,500.0	0.00	0.00	7,500.0	3,932.0	0.0	0.0	0.0	0.00	32.64	-103.85		
7,600.0	0.00	0.00	7,600.0	4,032.0	0.0	0.0	0.0	0.00	32.64	-103.85		
7,700.0	0.00	0.00	7,700.0	4,132.0	0.0	0.0	0.0	0.00	32.64	-103.85		
7,800.0	0.00	0.00	7,800.0	4,232.0	0.0	0.0	0.0	0.00	32.64	-103.85		
7,900.0	0.00	0.00	7,900.0	4,332.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,000.0	0.00	0.00	8,000.0	4,432.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,100.0	0.00	0.00	8,100.0	4,532.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,200.0	0.00	0.00	8,200.0	4,632.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,300.0	0.00	0.00	8,300.0	4,732.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,400.0	0.00	0.00	8,400.0	4,832.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,500.0	0.00	0.00	8,500.0	4,932.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,567.0	0.00	0.00	8,567.0	4,999.0	0.0	0.0	0.0	0.00	32.64	-103.85		
8,600.0	3.30	268.43	8,600.0	5,032.0	0.0	-0.9	1.0	10.00	32.64	-103.85		
8,650.0	8.30	268.43	8,649.7	5,081.7	-0.2	-6.0	6.0	10.00	32.64	-103.85		
8,700.0	13.30	268.43	8,698.8	5,130.8	-0.4	-15.4	15.4	10.00	32.64	-103.85		
8,750.0	18.30	268.43	8,746.9	5,178.9	-0.8	-29.0	29.0	10.00	32.64	-103.85		
8,800.0	23.30	268.43	8,793.6	5,225.6	-1.3	-46.7	46.7	10.00	32.64	-103.85		
8,850.0	28.30	268.43	8,838.6	5,270.6	-1.9	-68.5	68.5	10.00	32.64	-103.85		
8,900.0	33.30	268.43	8,881.6	5,313.6	-2.6	-94.0	94.1	10.00	32.64	-103.85		
8,950.0	38.30	268.43	8,922.1	5,354.1	-3.4	-123.3	123.3	10.00	32.64	-103.85		
9,000.0	43.30	268.43	8,959.9	5,391.9	-4.3	-155.9	156.0	10.00	32.64	-103.85		
9,050.0	48.30	268.43	8,994.8	5,426.8	-5.3	-191.7	191.8	10.00	32.64	-103.85		
9,100.0	53.30	268.43	9,026.4	5,458.4	-6.3	-230.5	230.5	10.00	32.64	-103.85		
9,150.0	58.30	268.43	9,054.5	5,486.5	-7.5	-271.8	271.9	10.00	32.64	-103.85		
9,200.0	63.30	268.43	9,078.9	5,510.9	-8.7	-315.4	315.5	10.00	32.64	-103.85		
9,250.0	68.30	268.43	9,099.4	5,531.4	-9.9	-361.0	361.1	10.00	32.64	-103.85		
9,300.0	73.30	268.43	9,115.8	5,547.8	-11.2	-408.2	408.3	10.00	32.64	-103.85		



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Pathfinder
Pathfinder X&Y Report



Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26' @ 3568.0usft (H&P300)
Site:	Aquila 22 Fed Com	MD Reference:	KB = 26' @ 3568.0usft (H&P300)
Well:	#3H	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)	Latitude (°)	Longitude (°)	
9,350.0	78.30	268.43	9,128.1	5,560.1	-12.5	-456.6	456.8	10.00	32.64	-103.85	
9,400.0	83.30	268.43	9,136.0	5,568.0	-13.9	-505.9	506.1	10.00	32.64	-103.85	
9,450.0	88.30	268.43	9,139.7	5,571.7	-15.2	-555.8	556.0	10.00	32.64	-103.85	
9,468.4	90.14	268.43	9,140.0	5,572.0	-15.8	-574.1	574.3	10.00	32.64	-103.85	
9,500.0	90.14	268.43	9,139.9	5,571.9	-16.6	-605.7	606.0	0.00	32.64	-103.85	
9,600.0	90.14	268.43	9,139.6	5,571.6	-19.4	-705.7	706.0	0.00	32.64	-103.85	
9,700.0	90.14	268.43	9,139.4	5,571.4	-22.1	-805.7	806.0	0.00	32.64	-103.85	
9,800.0	90.14	268.43	9,139.2	5,571.2	-24.8	-905.6	906.0	0.00	32.64	-103.85	
9,900.0	90.14	268.43	9,138.9	5,570.9	-27.6	-1,005.6	1,006.0	0.00	32.64	-103.85	
10,000.0	90.14	268.43	9,138.7	5,570.7	-30.3	-1,105.5	1,106.0	0.00	32.64	-103.85	
10,100.0	90.14	268.43	9,138.4	5,570.4	-33.1	-1,205.5	1,206.0	0.00	32.64	-103.85	
10,200.0	90.14	268.43	9,138.2	5,570.2	-35.8	-1,305.5	1,306.0	0.00	32.64	-103.85	
10,300.0	90.14	268.43	9,138.0	5,570.0	-38.6	-1,405.4	1,406.0	0.00	32.64	-103.85	
10,400.0	90.14	268.43	9,137.7	5,569.7	-41.3	-1,505.4	1,506.0	0.00	32.64	-103.85	
10,500.0	90.14	268.43	9,137.5	5,569.5	-44.0	-1,605.4	1,606.0	0.00	32.64	-103.85	
10,600.0	90.14	268.43	9,137.2	5,569.2	-46.8	-1,705.3	1,706.0	0.00	32.64	-103.85	
10,700.0	90.14	268.43	9,137.0	5,569.0	-49.5	-1,805.3	1,806.0	0.00	32.64	-103.86	
10,800.0	90.14	268.43	9,136.8	5,568.8	-52.3	-1,905.2	1,906.0	0.00	32.64	-103.86	
10,900.0	90.14	268.43	9,136.5	5,568.5	-55.0	-2,005.2	2,006.0	0.00	32.64	-103.86	
11,000.0	90.14	268.43	9,136.3	5,568.3	-57.8	-2,105.2	2,106.0	0.00	32.64	-103.86	
11,100.0	90.14	268.43	9,136.0	5,568.0	-60.5	-2,205.1	2,206.0	0.00	32.64	-103.86	
11,200.0	90.14	268.43	9,135.8	5,567.8	-63.2	-2,305.1	2,306.0	0.00	32.64	-103.86	
11,300.0	90.14	268.43	9,135.6	5,567.6	-66.0	-2,405.0	2,406.0	0.00	32.64	-103.86	
11,400.0	90.14	268.43	9,135.3	5,567.3	-68.7	-2,505.0	2,506.0	0.00	32.64	-103.86	
11,500.0	90.14	268.43	9,135.1	5,567.1	-71.5	-2,605.0	2,606.0	0.00	32.64	-103.86	
11,600.0	90.14	268.43	9,134.8	5,566.8	-74.2	-2,704.9	2,706.0	0.00	32.64	-103.86	
11,700.0	90.14	268.43	9,134.6	5,566.6	-77.0	-2,804.9	2,806.0	0.00	32.64	-103.86	



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Pathfinder
Pathfinder X&Y Report



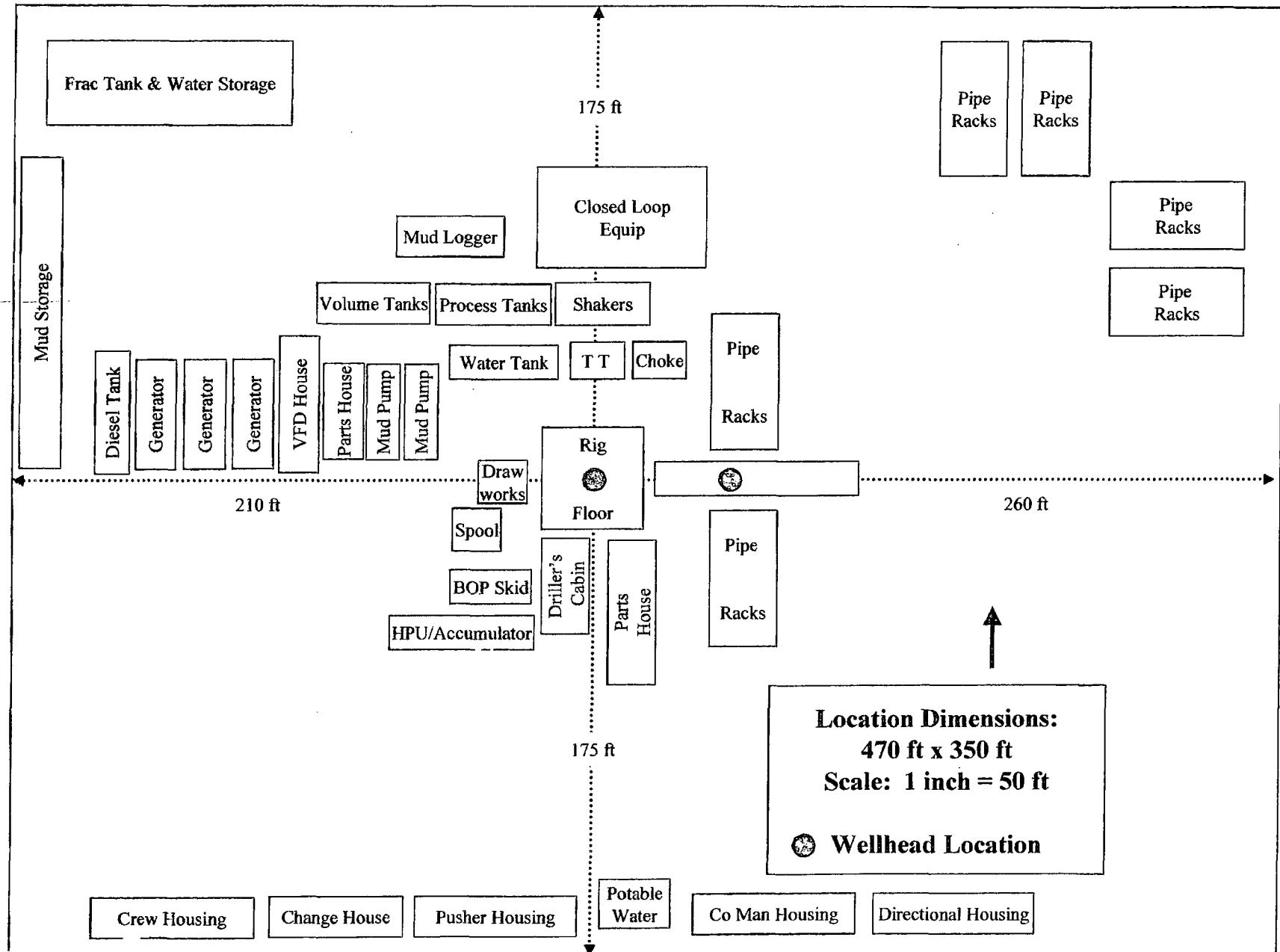
Company:	Devon Energy, Inc.	Local Co-ordinate Reference:	Well #3H
Project:	Eddy County (NAD83)	TVD Reference:	KB = 26' @ 3568.0usft (H&P300)
Site:	Aquila 22 Fed Com	MD Reference:	KB = 26' @ 3568.0usft (H&P300)
Well:	#3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Latitude (°)	Longitude (°)	
11,800.0	90.14	268.43	9,134.4	5,566.4	-79.7	-2,904.9	2,906.0	0.00	32.64	-103.86	
11,900.0	90.14	268.43	9,134.1	5,566.1	-82.4	-3,004.8	3,006.0	0.00	32.64	-103.86	
12,000.0	90.14	268.43	9,133.9	5,565.9	-85.2	-3,104.8	3,106.0	0.00	32.64	-103.86	
12,100.0	90.14	268.43	9,133.6	5,565.6	-87.9	-3,204.7	3,206.0	0.00	32.64	-103.86	
12,200.0	90.14	268.43	9,133.4	5,565.4	-90.7	-3,304.7	3,305.9	0.00	32.64	-103.86	
12,300.0	90.14	268.43	9,133.1	5,565.1	-93.4	-3,404.7	3,405.9	0.00	32.64	-103.86	
12,400.0	90.14	268.43	9,132.9	5,564.9	-96.2	-3,504.6	3,505.9	0.00	32.64	-103.86	
12,500.0	90.14	268.43	9,132.7	5,564.7	-98.9	-3,604.6	3,605.9	0.00	32.64	-103.86	
12,600.0	90.14	268.43	9,132.4	5,564.4	-101.6	-3,704.6	3,705.9	0.00	32.64	-103.86	
12,700.0	90.14	268.43	9,132.2	5,564.2	-104.4	-3,804.5	3,805.9	0.00	32.64	-103.86	
12,800.0	90.14	268.43	9,131.9	5,563.9	-107.1	-3,904.5	3,905.9	0.00	32.64	-103.86	
12,900.0	90.14	268.43	9,131.7	5,563.7	-109.9	-4,004.4	4,005.9	0.00	32.64	-103.86	
13,000.0	90.14	268.43	9,131.5	5,563.5	-112.6	-4,104.4	4,105.9	0.00	32.64	-103.86	
13,100.0	90.14	268.43	9,131.2	5,563.2	-115.4	-4,204.4	4,205.9	0.00	32.64	-103.86	
13,200.0	90.14	268.43	9,131.0	5,563.0	-118.1	-4,304.3	4,305.9	0.00	32.64	-103.86	
13,300.0	90.14	268.43	9,130.7	5,562.7	-120.8	-4,404.3	4,405.9	0.00	32.64	-103.86	
13,400.0	90.14	268.43	9,130.5	5,562.5	-123.6	-4,504.3	4,505.9	0.00	32.64	-103.86	
13,500.0	90.14	268.43	9,130.3	5,562.3	-126.3	-4,604.2	4,605.9	0.00	32.64	-103.86	
13,600.0	90.14	268.43	9,130.0	5,562.0	-129.1	-4,704.2	4,705.9	0.00	32.64	-103.86	
13,610.2	90.14	268.43	9,130.0	5,562.0	-129.3	-4,714.4	4,716.2	0.00	32.64	-103.86	

Checked By: _____ Approved By: _____ Date: _____

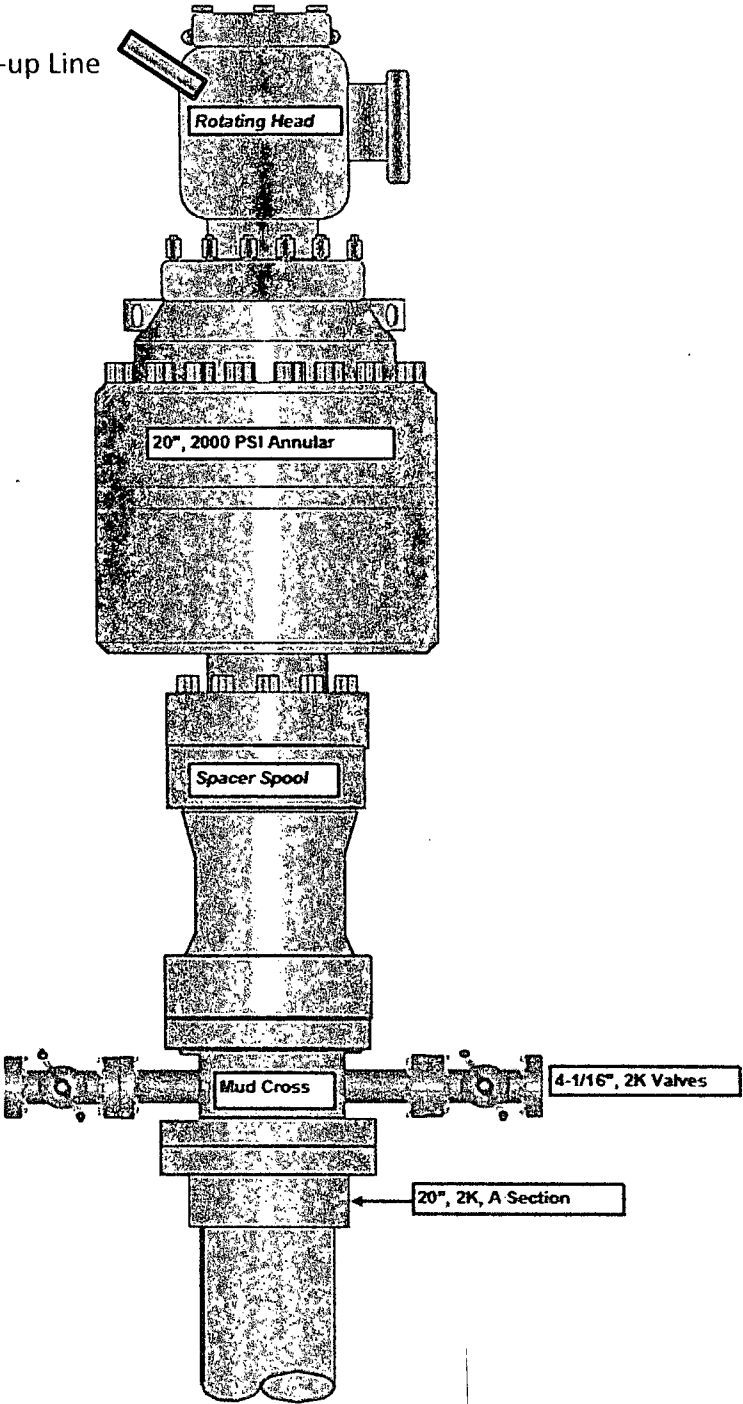
H&P Flex Rig Location Layout

2 Well Pad



20" 2K Annular

Fill-up Line

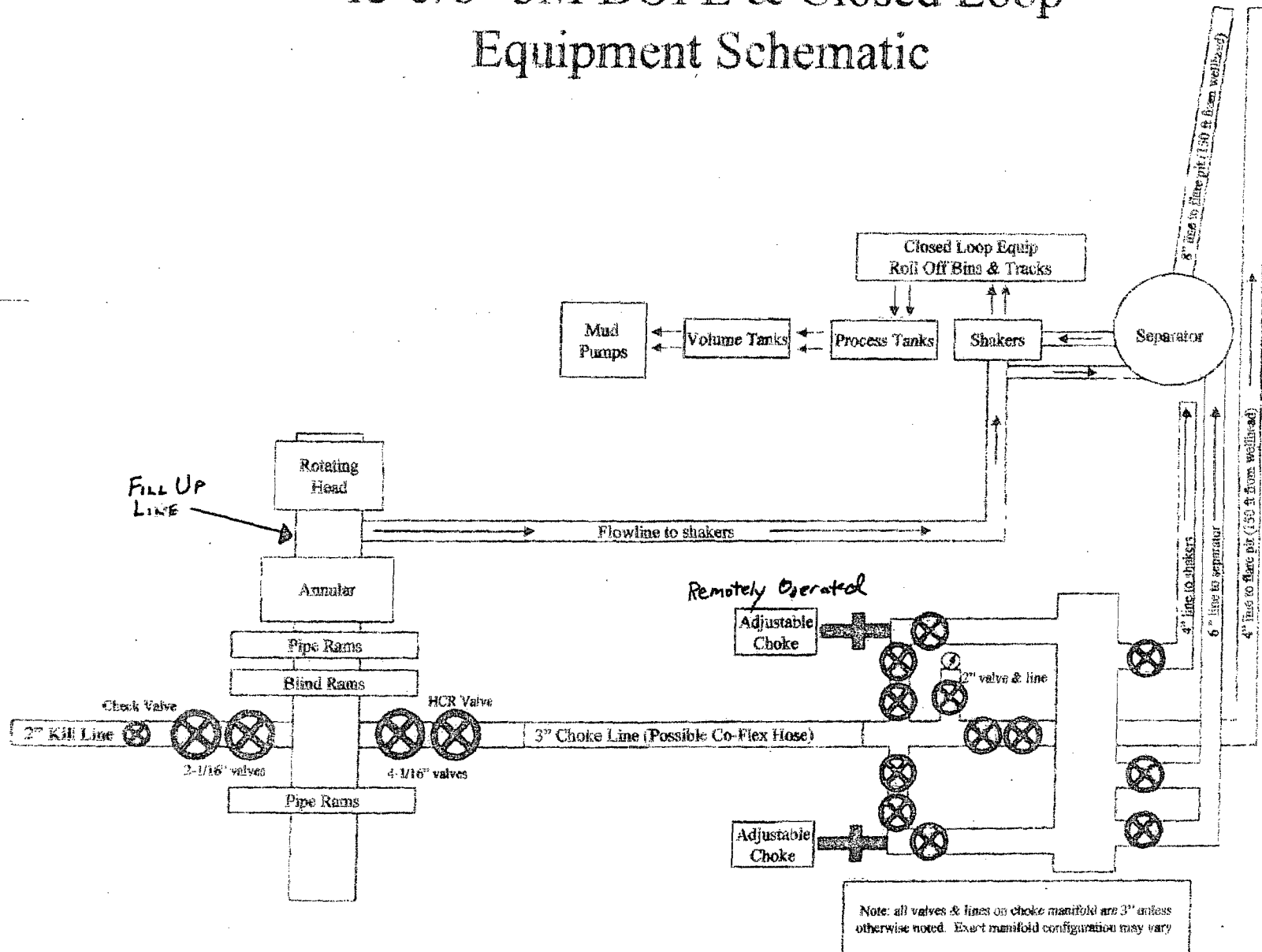


NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Aquila 22 Fed Com 3H

Surface Location: 2080' FSL & 225' FEL, Unit I, Sec 22 T19S R31E, Eddy, NM
Bottom Hole Location: 1980' FSL & 340' FWL, Unit L, Sec 22 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.

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





Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

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

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

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

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
31535 Brittoncore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



Hydrostatic Test Certificate



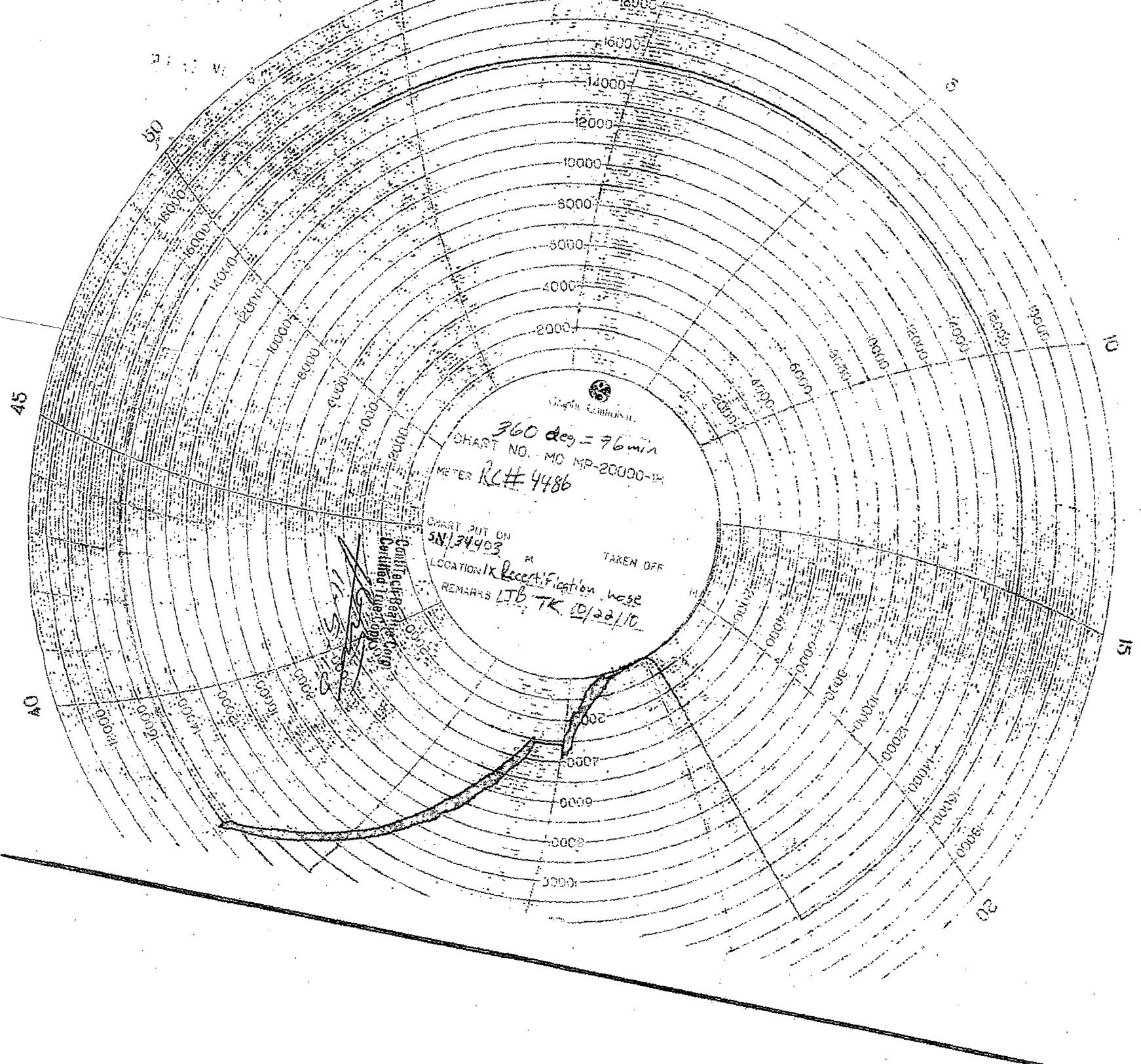
Certificate Number: 4520	PBC No: 10321	Customer Name & Address:
Customer Purchase Order No: RIG 300		HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119
Project:		
Test Centre Address:	Accepted by ContiTech Beattie Inspection:	Accepted by Client Inspection:
ContiTech Beattie Corp.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

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

These goods were made in the United States of America.

Item	Part No.	Description	Qty.	Serial Number	As-Built Length (m)	Work Press.	Test Press.	Test Time (minutes)
------	----------	-------------	------	---------------	---------------------	-------------	-------------	---------------------

1		3" ID 10K Choke & Kill Hose x 35ft OAL	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						



360 deg = 96 min
CHART NO. MC NP-20000-14
METER RC# 4486

CHART PUT ON 5N/34403
LOCATION IX Recertification base
REMARKS LTB TK 10/22/10
TAKEN OFF

Conflicting Base
Certified True
C. R. [unclear]



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

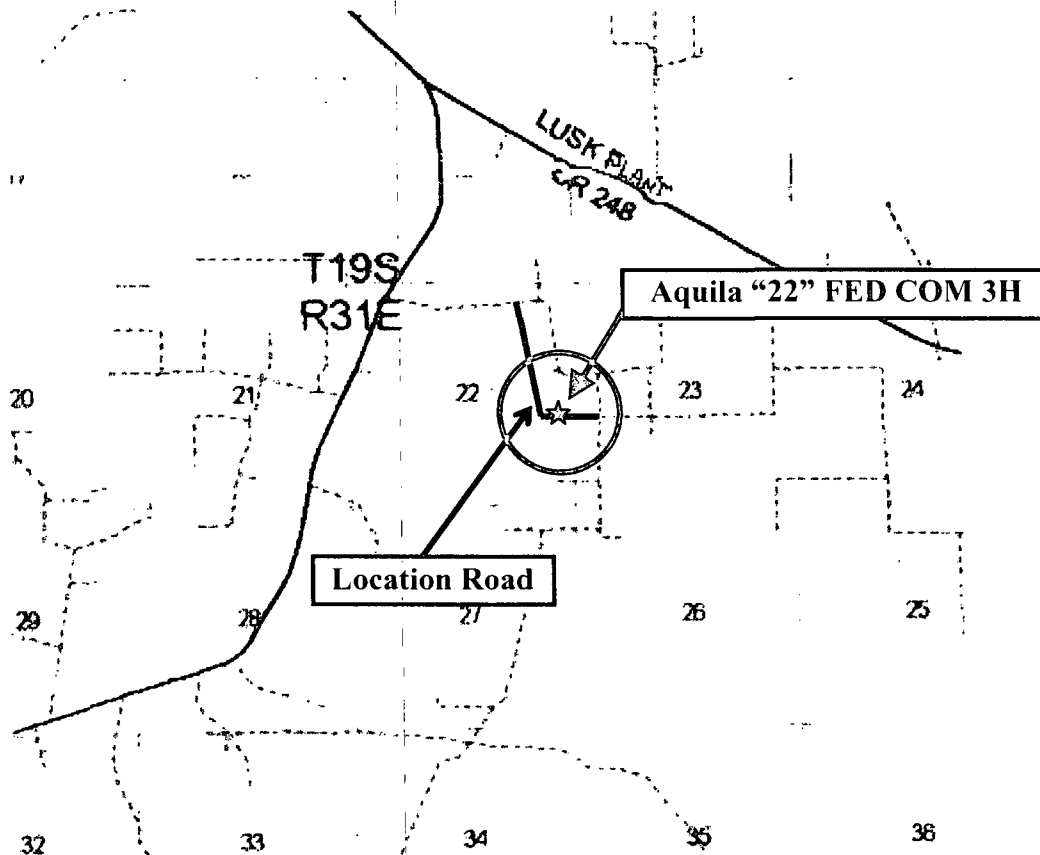
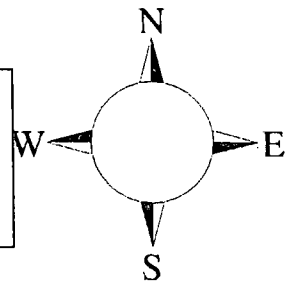
Aquila "22" FED COM 3H

**Sec-22, T-19S R-31E
2080' FSL & 225' FEL,
LAT. = 32.6444208'N (NAD83)
LONG = 103.8492630'W**

Eddy County NM

Aquila "22" FED COM 3H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm H₂S = 3000' (100 ppm H₂S concentration shall trigger activation of this plan.)

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road, West then Northwest on lease 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 are no homes or buildings in or near the ROE.

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

Characteristics of H₂S and SO₂

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

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)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubular are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.

2. Protective equipment for essential personnel:

- A. 30-minute SCBA units located in the doghouse and at briefing areas, as indicated on well site diagram. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

- A. Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 PPM are reached. These units are usually capable of detecting SO₂, which is a byproduct of burning H₂S.

4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephones and 2-way radio
- B. Land line (telephone) communications at Office

8. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Devon Energy Corp. Company Call List

<u>Artesia (575)</u>	<u>Cellular</u>	<u>Office</u>	<u>Home</u>
Foreman – Robert Bell.....	748-7448	748-0178	746-2991
Asst. Foreman –Tommy Polly.....	748-5290	748-0165	748-2846
Don Mayberry.....	748-5235	748-0164	746-4945
Montral Walker.....	390-5182	748-0193	936-414-6246
Engineer – Marcos Ortiz.....	(405) 317-0666.....	(405) 552-8152.....	(405) 381-4350

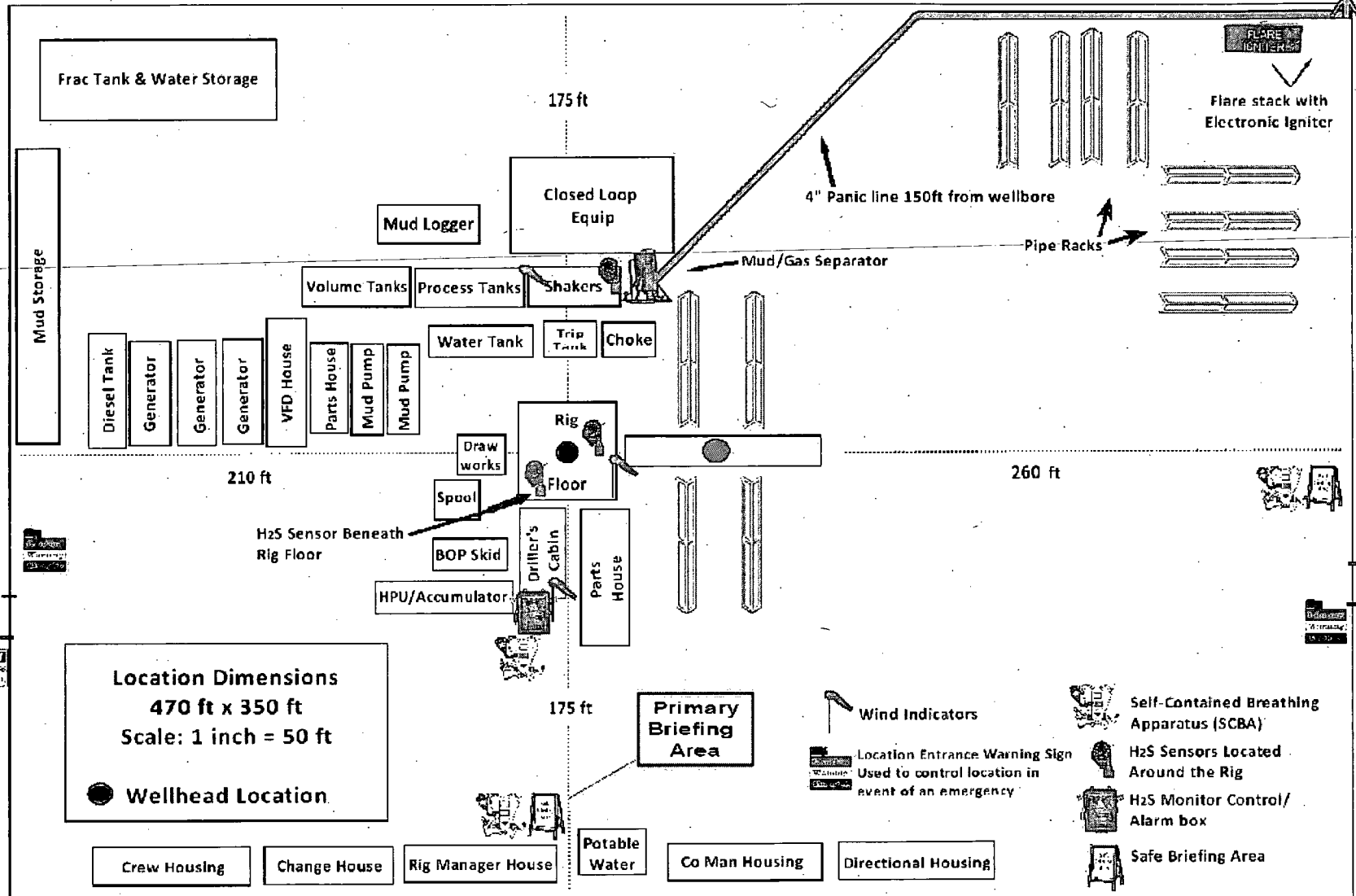
Agency Call List

<u>Lea</u>	<u>Hobbs</u>	
<u>County</u>	State Police	392-5588
<u>(575)</u>	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
<u>Eddy</u>	<u>Carlsbad</u>	
<u>County</u>	State Police	885-3137
<u>(575)</u>	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
<i>Give</i>	Flight For Life - Lubbock, TX	(806) 743-9911
<i>GPS</i>	Aerocare - Lubbock, TX	(806) 747-8923
<i>position:</i>	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc: Albuquerque, NM	(575) 272-3115

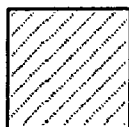
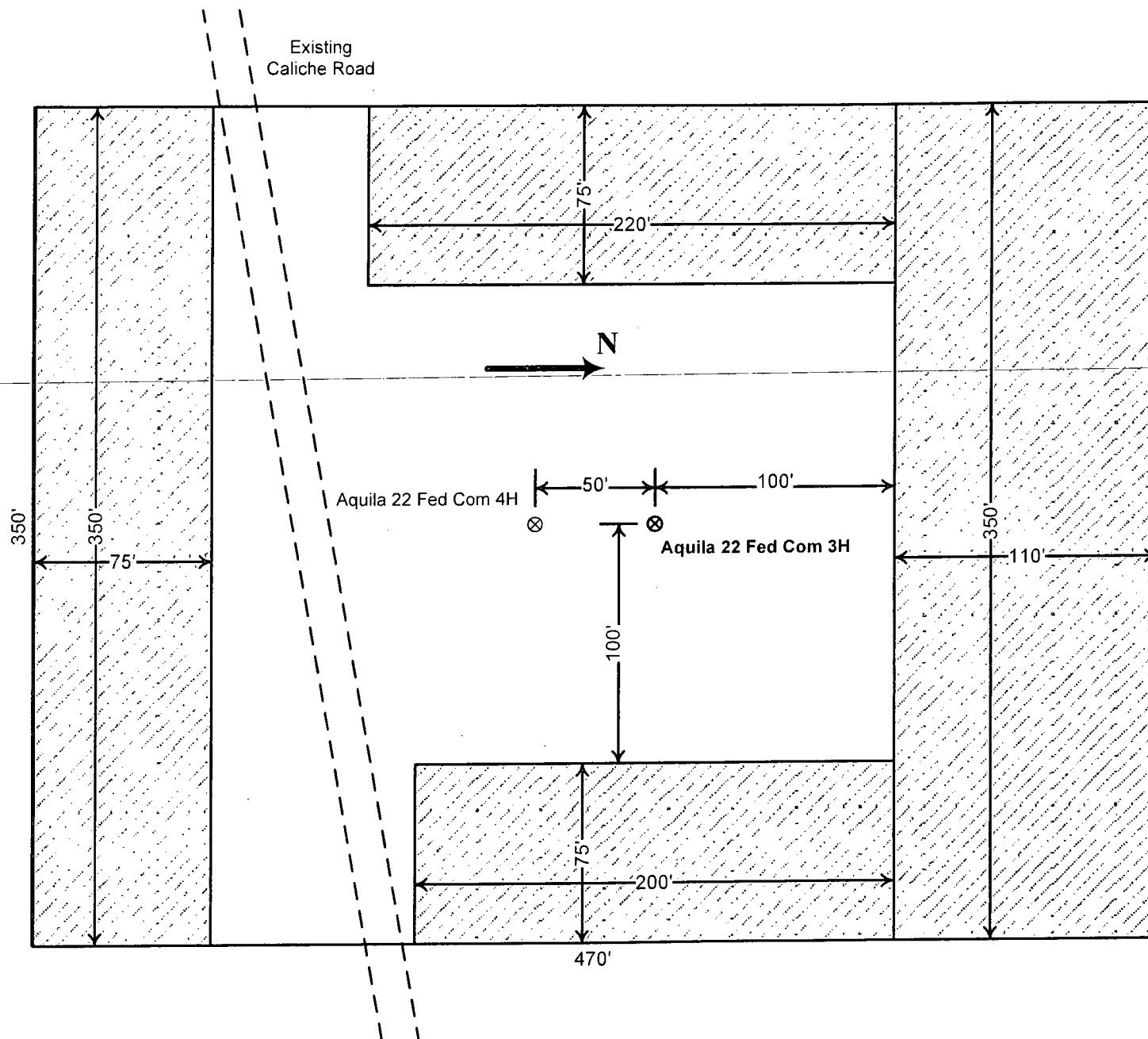
Prepared in conjunction with
Wade Rohloff



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



Devon Energy Production Co.
Aquila 22 Fed Com 3H
2080' FSL & 225' FEL
Sec. 22-T19S-R31E
Eddy County, NM

Proposed
Reclamation
Area

Scale: 1in = 60ft.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY
LEASE NO.:	NM92767
WELL NAME & NO.:	3H-AQUILA 22 FEDERAL COM
SURFACE HOLE FOOTAGE:	2080'/S. & 225'/E.
BOTTOM HOLE FOOTAGE:	1980'/S. & 340'/W.
LOCATION:	Section 22, 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**
 - 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**