

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NM0107697; ~~NM000003~~; NM 112274
6. If Indian, Allottee or Tribe Name

705
2/14/2013

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.
Antares 23 Federal 2H <39724>

2. Name of Operator
Devon Energy Production, Company L. P.

9. API Well No.
30-015-41106

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

3b. Phone No. (include area code)
405-235-3611

10. Field and Pool, or Exploratory
Lusk; Bone Spring W. <41480>

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

At surface D 1080 FNL & 225 FWL
At proposed prod. zone H 2310 FNL & 340 FEL

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 23 T19S R31E

14. Distance in miles and direction from nearest town or post office*
14 Miles south of Maljamar, NM

12. County or Parish
Eddy

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft.
(Also to nearest drig. unit line, if any)
330'

16. No. of acres in lease
NM0107967; ~~NM000003~~
NM112274 - 2481 ac

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

19. Proposed Depth
9210' TVD 14,009' MD

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3540' GL

22. Approximate date work will start*

23. Estimated duration
45 days

24. Attachments Pad drilled w/ Antares 23 Fed Com 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.
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
Judy A. Barnett
Title
Regulatory Specialist

Name (Printed/Typed)
Judy A. Barnett

Date
07/17/2012

Approved by (Signature) /s/ Don Peterson

Name (Printed/Typed) /s/ Don Peterson

Date
FEB - 8 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.

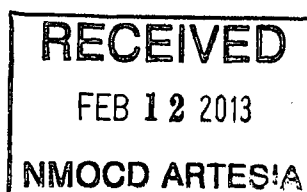
Conditions of approval, if any, are attached.

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)

Capitan Controlled Water Basin



Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41106	² Pool Code 41480	³ Pool Name LUSK; BONE SPRING W.
⁴ Property 3972.4	⁵ Property Name ANTARES "23" FED	⁶ Well Number 2H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3540.6

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
D	23	19 S	31 E		1080	NORTH	225	WEST	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
H	23	19 S	31 E		2310	NORTH	340	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

S89°37'30"W 2642.70 FT NW CORNER SEC. 23 LAT. = 32.6532167°N LONG. = 103.8485583°W NMSP EAST (FT) N = 601711.78 E = 690537.57		S89°36'59"W 2641.32 FT N CORNER SEC. 23 LAT. = 32.6532412°N LONG. = 103.8313901°W NMSP EAST (FT) N = 601745.22 E = 695821.48		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: <i>Judy A. Barnett</i> Date: _____ Judy A. Barnett Regulatory Specialist Printed Name: _____ E-mail Address: _____
225' SURFACE LOCATION ANTARES "23" FED #2H ELEV. = 3540.6 LAT. = 32.6502500°N (NAD83) LONG. = 103.8478188°W NMSP EAST (FT) N = 600633.50 E = 690770.12		1032' 340' BOTTOM OF HOLE LAT. = 32.6468905°N LONG. = 103.8324795°W NMSP EAST (FT) N = 599433.19 E = 695497.10		
W Q CORNER SEC. 23 LAT. = 32.6459648°N LONG. = 103.8485371°W NMSP EAST (FT) N = 599073.48 E = 690556.15		S Q CORNER SEC. 23 LAT. = 32.6387534°N LONG. = 103.8399407°W NMSP EAST (FT) N = 596482.08 E = 693214.30		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. JULY 17, 2013 Date of Survey: _____ Signature and Seal of Professional Surveyor: <i>F. J. A. Mello</i> Certificate Number: FJL/MON F. J. A. MELLO, PLS 12797 SURVEY NO. 1043R
SW CORNER SEC. 23 LAT. = 32.6387059°N LONG. = 103.845136°W NMSP EAST (FT) N = 596432.63 E = 690575.45		SE CORNER SEC. 23 LAT. = 32.6387287°N LONG. = 103.8313552°W NMSP EAST (FT) N = 596465.46 E = 695857.17		

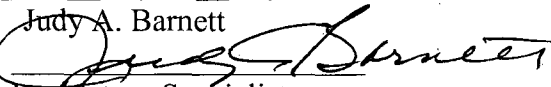
Certification

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 17th day of July, 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
Antares 23 Federal 2H

Surface Location: 1080' FNL & 225' FWL, Unit D, Sec 23 T19S R31E, Eddy, NM
Bottom Hole Location: 2310' FNL & 340' FEL, Unit H, Sec 23 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	610'	Barren
c. Salado	845'	Barren
d. Tansil Dolomite	2270'	Barren
e. Yates	2375'	Barren
f. Seven Rivers	2590'	Barren
g. Capitan	2690'	
h. B/Capitan	3550'	
i. Delaware	4405'	Oil
j. Bone Spring	6935'	Oil
k. 1 st Bone Spring Ss	8255'	Oil
l. 2 nd Bone Spring Lime	8565'	Oil
m. 2 nd Bone Spring Ss	8975'	Oil
Total Depth	14,009'	

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 - 800' ⁶⁴⁰	20"	0'-800'	94#	BT&C	J/K-55
17 1/2"	800-2600'	13 3/8"	0'-2600'	61#	BT&C	J-55
12 1/4"	2600-4400' ⁴³⁰⁰	9 5/8"	0'-4400'	36#	LT&C	J-55
8 3/4"	4400'-8425'	5 1/2"	0'-8425'	17#	LT&C	HCP110
8 3/4"	8425-14,009'	5 1/2"	8425-14,009'	17#	BT&C	HCP110

MAX TVD in lateral 9210'

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"	1.39	5.64	1.86
13 3/8" 36#	1.14	1.28	2.58
9 5/8" 40#	1.30	1.54	3.56
5 1/2" 17# LTC	1.89	2.70	1.87
5 1/2" 17#BTC	1.73	2.47	6.98

The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. There is no potential for the intermediate casing to be used as a production string.

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

- a. 20" Surface **Lead** w/ 1115sx Cl C + 1% bwoc Calcium Chloride + 0.125#/sx CF + 4% bwoc Bentonite + 81.1% FW, 13.5 ppg. **Yld** 1.73 cf/sx. **TOC @ surface. Tail** w/ 300 sx Class C + 2% bwoc Calcium Chloride + 0.125#/sx CF + 56.3% FW, 14.8 ppg. **Yld** 1.35 cf/sx. **TOC @ surface.**
- b. 13 3/8" Intermediate **Lead** w/ 1825 sx 60:40 POZ (Fly Ash): Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 3#/sx LCM-1 + 1% bwoc Sodium Metasilicate + 0.4% bwoc R-3 + 0.25% bwoc FL-52 + 89.5% FW, 12.6 ppg. **Yld** 1.74 cf/sx. **TOC @ surface. Tail** w/ 450 sx 60:40 POZ (Fly Ash): Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 0.5% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 0.5% bwoc BA-10A + 65.3% FW, 13.8 ppg. **Yld** 1.38 cf/sx.
- c. 9 5/8" Intermediate **1st Stage:**Lead w/ 510 sx 60:40 POZ (Fly Ash) Cl C + 0.125#/sx CF + 5% bwow Sodium Chloride + 3#/sx LCM-1 + 1% bwoc Sodium Metasilicate + 0.3% bwoc R-3 + 0.25% bwoc FL-52 + 89.6% FW, 12.6 ppg. **Yld** 1.73 cf/sx. **Tail** w/ 300 sx 60:40 Poz (Fly Ash) Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 0.1% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 0.5% bwoc BA-10A + 65.2% FW, 13.8 ppg. **Yld** 1.38 cf/sx.

DV Tool and ECP set at 2,670'. DV tool and ECP actual depth may be adjusted, on location of loss zone.

2nd Stage: Lead w/ 525 sx 60:40 Poz Fly Ash Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 3#sx LCM-1 + 1% bwoc Sodium Metasilicate + 0.25% bwoc FL-52 + 0.3% bwoc R-3 + 89.6% FW, 12.6 ppg **Yld 1.73 cf/sx.** **Tail** w/ 150 sx 60:40 Poz Fly Ash Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 0.1% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 0.5% bwoc BA-10A + 65.2% FW, 13.8 ppg, Yld 1.38 cf/sx.

5 1/2" Production

1st Stage: Lead w/ 880 sx (35:65) Poz Fly Ash Cl H + 3% bwow Sodium Chloride + 0.125#/sx CF + 0.7% bwoc FL-52 + 6% bwoc Bentonite + 0.2% bwoc R-3 + 0.3% bwoc ASA-301 + 105.5% FW, 12.5 ppg, Yld 2.01 cf/sx. **Tail:** 1340 sx 50:50 Poz Fly Ash Cl H + 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% FW, 14.2 ppg, **Yld 1.28 cf/sx**

DV Tool @ 5000'.

2nd Stage: Lead w/ 300 sx Cl C + 1% bwoc R-3 + 0.125#/sx /cf + 3% bwoc Sodium Metasilicate + 0.3% bwoc FL-52 + 157% FW, 11.40 ppg, Yld 2.88 cf/sx. **Tail** w/ 150 sx 60:40 Poz Fly Ash Cl C + 5% bwow Sodium Chloride + 0.125#/sx CF + 4% bwoc MPA-5 + 0.5% bwoc BA-10A + 65.1% FW, 13.8 ppg, Yld 1.37. TOC 2500' ~200' above Reef top.

Pressure Control Equipment

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 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 Double 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 casing shoe.

The pipe rams will be operated and checked as per Onshore Order No 2. 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); **if an H&P rig drills this well. Otherwise no flex line is needed.** 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 - 800' <i>640</i>	8.4-9.0	30-34	NC	FW
800- 2600' <i>4500</i>	9.8-10.0	28-32	NC	Brine
2600-4400'	8.4-9.0	28-32	NC	FW
4400-14,009'	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 1/2" 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.



Weatherford[®]

Drilling Services

Proposal



devon

NTARES 23 FEDERAL #2H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

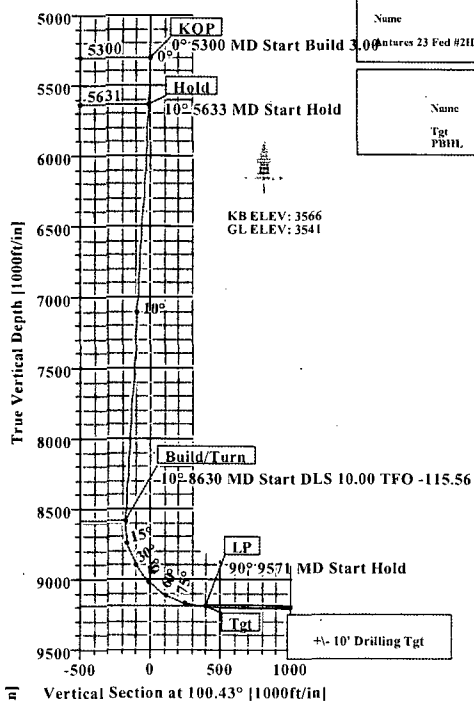
JUNE 29, 2012

Weatherford International, Ltd.

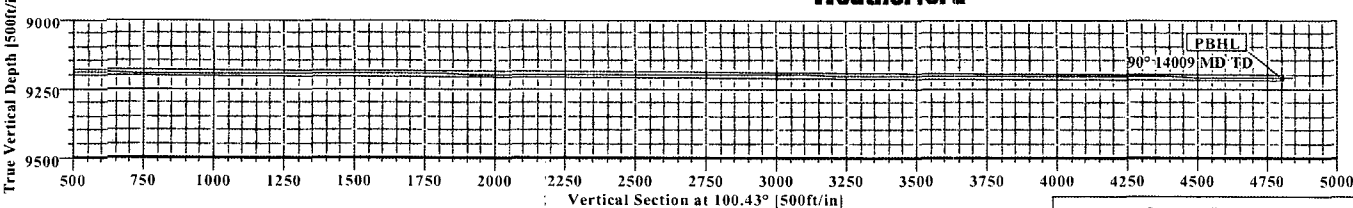
P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
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www.weatherford.com

devon

Antares 23 Federal #2H
Eddy Co., New Mexico



Vertical Section at 100.43° [1000ft/in]



Vertical Section at 100.43° [500ft/in]

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	
3	5633.10	9.99	209.24	5631.41	-25.28	-14.15	3.00	0.00	-9.34	
4	8630.00	9.99	109.24	8582.84	-479.06	-168.18	0.00	0.00	-177.93	
5	9571.07	89.76	93.38	9191.63	-608.51	294.14	10.00	-115.56	399.44	Tgt
6	14009.49	89.76	93.38	9210.00	-869.86	4724.82	0.00	0.00	4804.23	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Antares 23 Fed #2H	0.00	0.00	600633.50	690770.12	32°39'00.888N	103°50'52.164W	N/A

TARGET DETAILS

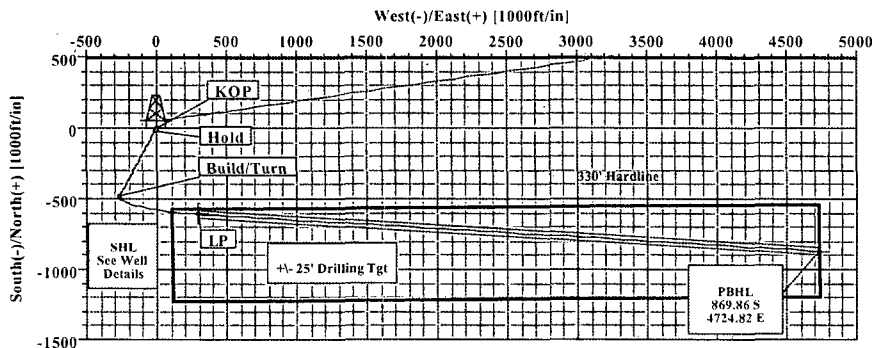
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Tgt	9191.63	-608.51	294.14	600024.99	691064.26	Point
PBHL	9210.00	-869.86	4724.82	599763.64	695494.94	Rectangle (4438x50)

SITE DETAILS

Antares 23 Federal #2H
Site Centre Northing: 600633.50
Easting: 690770.12
Ground Level: 3541.00
Positional Uncertainty: 0.00
Convergence: 0.26

FIELD DETAILS

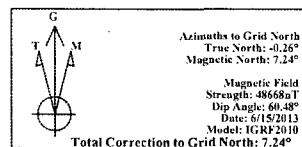
Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRN 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North



LEGEND
Antares 23 Federal #1H (1)
Plan #1



Weatherford



Plan: Plan #1 (Antares 23 Fed #2H/1)

Created By: Russell W. Joyner

Date: 7/10/2012



Weatherford

WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy Field: Eddy Co., NM (NAD 83) Site: Antares 23 Federal #2H Well: Antares 23 Fed #2H Wellpath: 1		Date: 7/10/2012 Time: 09:31:57 Co-ordinate(NE) Reference: Well: Antares 23 Fed #2H, Grid North Vertical (TVD) Reference: SITE 3566.0 Section (VS) Reference: Well (0.00N,0.00E,100.43Azi) Survey Calculation Method: Minimum Curvature Db: Sybase		Page: 1						
Plan: Plan #1 Principal: Yes		Date Composed: 6/29/2012 Version: 1 Tied-to: From Surface								
Field: Eddy Co., NM (NAD 83) Map System: US State Plane Coordinate System 1983 Geo Datum: GRS 1980 Sys Datum: Mean Sea Level		Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010								
Site: Antares 23 Federal #2H Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3541.00 ft		Northing: 600633.50 ft Easting: 690770.12 ft Latitude: 32 39 0.888 N Longitude: 103 50 52.164 W North Reference: Grid Grid Convergence: 0.26 deg								
Well: Antares 23 Fed #2H Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft		Slot Name: Latitude: 32 39 0.888 N Longitude: 103 50 52.164 W								
Wellpath: 1 Current Datum: SITE Magnetic Data: 6/15/2013 Field Strength: 48668 nT Vertical Section: Depth From (TVD) ft		Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.50 deg Mag Dip Angle: 60.48 deg +N/-S ft +E/-W ft Direction deg								
0.00		0.00 0.00 100.43								
Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5633.10	9.99	209.24	5631.41	-25.28	-14.15	3.00	3.00	0.00	0.00	
8630.00	9.99	209.24	8582.84	-479.06	-268.18	0.00	0.00	0.00	0.00	
9571.07	89.76	93.38	9191.63	-608.51	294.14	10.00	8.48	-12.31	-115.56	Tgt
14009.49	89.76	93.38	9210.00	-869.86	4724.82	0.00	0.00	0.00	0.00	PBHL
Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	600633.50	690770.12	KOP
5400.00	3.00	209.24	5399.95	-2.28	-1.28	-0.84	3.00	600631.22	690768.84	
5500.00	6.00	209.24	5499.63	-9.13	-5.11	-3.37	3.00	600624.37	690765.01	
5600.00	9.00	209.24	5598.77	-20.52	-11.49	-7.58	3.00	600612.98	690758.63	
5633.10	9.99	209.24	5631.41	-25.28	-14.15	-9.34	3.00	600608.22	690755.97	Hold
5700.00	9.99	209.24	5697.30	-35.41	-19.82	-13.09	0.00	600598.09	690750.30	
5800.00	9.99	209.24	5795.78	-50.55	-28.30	-18.68	0.00	600582.95	690741.82	
5900.00	9.99	209.24	5894.26	-65.69	-36.78	-24.28	0.00	600567.81	690733.34	
6000.00	9.99	209.24	5992.75	-80.84	-45.25	-29.87	0.00	600552.66	690724.87	
6100.00	9.99	209.24	6091.23	-95.98	-53.73	-35.47	0.00	600537.52	690716.39	
6200.00	9.99	209.24	6189.71	-111.12	-62.21	-41.06	0.00	600522.38	690707.91	
6300.00	9.99	209.24	6288.20	-126.26	-70.68	-46.66	0.00	600507.24	690699.44	
6400.00	9.99	209.24	6386.68	-141.40	-79.16	-52.25	0.00	600492.10	690690.96	
6500.00	9.99	209.24	6485.16	-156.54	-87.64	-57.85	0.00	600476.96	690682.48	
6600.00	9.99	209.24	6583.65	-171.68	-96.11	-63.44	0.00	600461.82	690674.01	



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Antares 23 Federal #2H
Well: Antares 23 Fed #2H
Wellpath: 1

Date: 7/10/2012 Time: 09:31:57 Page: 2
Co-ordinate(NE) Reference: Well: Antares 23 Fed #2H, Grid North
Vertical (TVD) Reference: SITE:3566.0
Section (VS) Reference: Well (0.00N,0.00E,100.43Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase.

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comments
6700.00	9.99	209.24	6682.13	-186.83	-104.59	-69.04	0.00	600446.67	690665.53	
6800.00	9.99	209.24	6780.61	-201.97	-113.07	-74.63	0.00	600431.53	690657.05	
6900.00	9.99	209.24	6879.09	-217.11	-121.54	-80.23	0.00	600416.39	690648.58	
7000.00	9.99	209.24	6977.58	-232.25	-130.02	-85.82	0.00	600401.25	690640.10	
7100.00	9.99	209.24	7076.06	-247.39	-138.49	-91.42	0.00	600386.11	690631.63	
7200.00	9.99	209.24	7174.54	-262.53	-146.97	-97.02	0.00	600370.97	690623.15	
7300.00	9.99	209.24	7273.03	-277.68	-155.45	-102.61	0.00	600355.82	690614.67	
7400.00	9.99	209.24	7371.51	-292.82	-163.92	-108.21	0.00	600340.68	690606.20	
7500.00	9.99	209.24	7469.99	-307.96	-172.40	-113.80	0.00	600325.54	690597.72	
7600.00	9.99	209.24	7568.47	-323.10	-180.88	-119.40	0.00	600310.40	690589.24	
7700.00	9.99	209.24	7666.96	-338.24	-189.35	-124.99	0.00	600295.26	690580.77	
7800.00	9.99	209.24	7765.44	-353.38	-197.83	-130.59	0.00	600280.12	690572.29	
7900.00	9.99	209.24	7863.92	-368.52	-206.31	-136.18	0.00	600264.98	690563.81	
8000.00	9.99	209.24	7962.41	-383.67	-214.78	-141.78	0.00	600249.83	690555.34	
8100.00	9.99	209.24	8060.89	-398.81	-223.26	-147.37	0.00	600234.69	690546.86	
8200.00	9.99	209.24	8159.37	-413.95	-231.74	-152.97	0.00	600219.55	690538.38	
8300.00	9.99	209.24	8257.85	-429.09	-240.21	-158.56	0.00	600204.41	690529.91	
8400.00	9.99	209.24	8356.34	-444.23	-248.69	-164.16	0.00	600189.27	690521.43	
8500.00	9.99	209.24	8454.82	-459.37	-257.17	-169.75	0.00	600174.13	690512.95	
8600.00	9.99	209.24	8553.30	-474.51	-265.64	-175.35	0.00	600158.99	690504.48	
8630.00	9.99	209.24	8582.84	-479.06	-268.18	-177.03	0.00	600154.44	690501.94	Build/Turn
8650.00	9.30	198.01	8602.57	-482.11	-269.53	-177.80	10.00	600151.39	690500.59	
8700.00	9.39	166.85	8651.93	-489.93	-269.85	-176.70	10.00	600143.57	690500.27	
8750.00	11.80	142.70	8701.10	-497.97	-265.83	-171.29	10.00	600135.53	690504.29	
8800.00	15.49	128.23	8749.70	-506.17	-257.48	-161.59	10.00	600127.33	690512.64	
8850.00	19.75	119.53	8797.35	-514.47	-244.88	-147.69	10.00	600119.03	690525.24	
8900.00	24.29	113.90	8843.69	-522.81	-228.11	-129.70	10.00	600110.69	690542.01	
8950.00	28.97	109.97	8888.38	-531.12	-207.31	-107.74	10.00	600102.38	690562.81	
9000.00	33.74	107.07	8931.07	-539.33	-182.64	-81.99	10.00	600094.17	690587.48	
9050.00	38.56	104.81	8971.43	-547.39	-154.29	-52.64	10.00	600086.11	690615.83	
9100.00	43.41	102.98	9009.17	-555.24	-122.46	-19.92	10.00	600078.26	690647.66	
9150.00	48.29	101.46	9043.98	-562.81	-87.40	15.93	10.00	600070.69	690682.72	
9200.00	53.19	100.15	9075.61	-570.05	-49.38	54.63	10.00	600063.45	690720.74	
9250.00	58.10	99.00	9103.82	-576.91	-8.69	95.89	10.00	600056.59	690761.43	
9300.00	63.02	97.97	9128.39	-583.32	34.36	139.40	10.00	600050.18	690804.48	
9350.00	67.94	97.02	9149.14	-589.24	79.45	184.81	10.00	600044.26	690849.57	
9400.00	72.87	96.14	9165.90	-594.63	126.23	231.80	10.00	600038.87	690896.35	
9450.00	77.81	95.30	9178.55	-599.45	174.35	279.99	10.00	600034.05	690944.47	
9500.00	82.74	94.49	9186.99	-603.65	223.44	329.02	10.00	600029.85	690993.56	
9550.00	87.68	93.71	9191.16	-607.21	273.12	378.53	10.00	600026.29	691043.24	
9571.07	89.76	93.38	9191.63	-608.51	294.14	399.44	10.00	600024.99	691064.26	Tgt
9600.00	89.76	93.38	9191.75	-610.21	323.02	428.15	0.00	600023.29	691093.14	
9700.00	89.76	93.38	9192.16	-616.10	422.85	527.40	0.00	600017.40	691192.97	
9800.00	89.76	93.38	9192.58	-621.99	522.67	626.64	0.00	600011.51	691292.79	
9900.00	89.76	93.38	9192.99	-627.88	622.50	725.88	0.00	600005.62	691392.62	
10000.00	89.76	93.38	9193.41	-633.77	722.32	825.12	0.00	599999.73	691492.44	
10100.00	89.76	93.38	9193.82	-639.66	822.15	924.36	0.00	599993.84	691592.27	
10200.00	89.76	93.38	9194.23	-645.54	921.97	1023.61	0.00	599987.96	691692.09	
10300.00	89.76	93.38	9194.65	-651.43	1021.80	1122.85	0.00	599982.07	691791.92	
10400.00	89.76	93.38	9195.06	-657.32	1121.63	1222.09	0.00	599976.18	691891.75	
10500.00	89.76	93.38	9195.47	-663.21	1221.45	1321.33	0.00	599970.29	691991.57	
10600.00	89.76	93.38	9195.89	-669.10	1321.28	1420.57	0.00	599964.40	692091.40	
10700.00	89.76	93.38	9196.30	-674.99	1421.10	1519.82	0.00	599958.51	692191.22	



Weatherford

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Antares 23 Federal #2H
Well: Antares 23 Fed #2H
Wellpath: 1

Date: 7/10/2012 Time: 09:31:57 Page: 3
Co-ordinate(NE) Reference: Well: Antares 23-Fed #2H, Grid North
Vertical (TVD) Reference: SITE 3566.0
Section (VS) Reference: Well (0.00N,0.00E,100.43Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
10800.00	89.76	93.38	9196.72	-680.87	1520.93	1619.06	0.00	599952.63	692291.05	
10900.00	89.76	93.38	9197.13	-686.76	1620.75	1718.30	0.00	599946.74	692390.87	
11000.00	89.76	93.38	9197.54	-692.65	1720.58	1817.54	0.00	599940.85	692490.70	
11100.00	89.76	93.38	9197.96	-698.54	1820.41	1916.79	0.00	599934.96	692590.53	
11200.00	89.76	93.38	9198.37	-704.43	1920.23	2016.03	0.00	599929.07	692690.35	
11300.00	89.76	93.38	9198.79	-710.32	2020.06	2115.27	0.00	599923.18	692790.18	
11400.00	89.76	93.38	9199.20	-716.20	2119.88	2214.51	0.00	599917.30	692890.00	
11500.00	89.76	93.38	9199.61	-722.09	2219.71	2313.75	0.00	599911.41	692989.83	
11600.00	89.76	93.38	9200.03	-727.98	2319.53	2413.00	0.00	599905.52	693089.65	
11700.00	89.76	93.38	9200.44	-733.87	2419.36	2512.24	0.00	599899.63	693189.48	
11800.00	89.76	93.38	9200.86	-739.76	2519.18	2611.48	0.00	599893.74	693289.30	
11900.00	89.76	93.38	9201.27	-745.65	2619.01	2710.72	0.00	599887.85	693389.13	
12000.00	89.76	93.38	9201.68	-751.53	2718.84	2809.97	0.00	599881.97	693488.96	
12100.00	89.76	93.38	9202.10	-757.42	2818.66	2909.21	0.00	599876.08	693588.78	
12200.00	89.76	93.38	9202.51	-763.31	2918.49	3008.45	0.00	599870.19	693688.61	
12300.00	89.76	93.38	9202.92	-769.20	3018.31	3107.69	0.00	599864.30	693788.43	
12400.00	89.76	93.38	9203.34	-775.09	3118.14	3206.93	0.00	599858.41	693888.26	
12500.00	89.76	93.38	9203.75	-780.98	3217.96	3306.18	0.00	599852.52	693988.08	
12600.00	89.76	93.38	9204.17	-786.86	3317.79	3405.42	0.00	599846.64	694087.91	
12700.00	89.76	93.38	9204.58	-792.75	3417.62	3504.66	0.00	599840.75	694187.74	
12800.00	89.76	93.38	9204.99	-798.64	3517.44	3603.90	0.00	599834.86	694287.56	
12900.00	89.76	93.38	9205.41	-804.53	3617.27	3703.15	0.00	599828.97	694387.39	
13000.00	89.76	93.38	9205.82	-810.42	3717.09	3802.39	0.00	599823.08	694487.21	
13100.00	89.76	93.38	9206.24	-816.31	3816.92	3901.63	0.00	599817.19	694587.04	
13200.00	89.76	93.38	9206.65	-822.19	3916.74	4000.87	0.00	599811.31	694686.86	
13300.00	89.76	93.38	9207.06	-828.08	4016.57	4100.11	0.00	599805.42	694786.69	
13400.00	89.76	93.38	9207.48	-833.97	4116.39	4199.36	0.00	599799.53	694886.51	
13500.00	89.76	93.38	9207.89	-839.86	4216.22	4298.60	0.00	599793.64	694986.34	
13600.00	89.76	93.38	9208.31	-845.75	4316.05	4397.84	0.00	599787.75	695086.17	
13700.00	89.76	93.38	9208.72	-851.64	4415.87	4497.08	0.00	599781.86	695185.99	
13800.00	89.76	93.38	9209.13	-857.52	4515.70	4596.32	0.00	599775.98	695285.82	
13900.00	89.76	93.38	9209.55	-863.41	4615.52	4695.57	0.00	599770.09	695385.64	
14009.49	89.76	93.38	9210.00	-869.86	4724.82	4804.23	0.00	599763.64	695494.94	PBHL

Targets

Name	Description Dip.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
Tgt		9191.63	-608.51	294.14	600024.99	691064.26	32 38 54.854 N	103 50 48.756 W
PBHL -Rectangle (4438x50)	0.24	93.38 9210.00	-869.86	4724.82	599763.64	695494.94	32 38 52.064 N	103 49 56.949 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy	Date: 7/10/2012	Time: 09:31:57	Page: 4
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Antares 23 Fed #2H, Grid North		
Site: Antares 23 Federal #2H	Vertical (TVD) Reference: SITE 3566.0		
Well: Antares 23 Fed #2H	Section (VS) Reference: Well (0.00N,0.00E,100.43Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Annotation

MD ft	TVD ft	
5300.00	5300.00	KOP
5633.10	5631.41	Hold
8630.00	8582.85	Build/Turn
9571.07	9191.63	LP
14009.48	9210.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: July 10, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Antares 23 Federal #2H
API Number: _____
Rig Name: JM Wright Unit #92H
Location: Eddy Co., NM
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 600633.500 USFT	Latitude 32.6502500 DEG
East/West 690770.120 USFT	Longitude -103.8478188 DEG
Grid Convergence: .26°	
Total Correction: +7.24°	

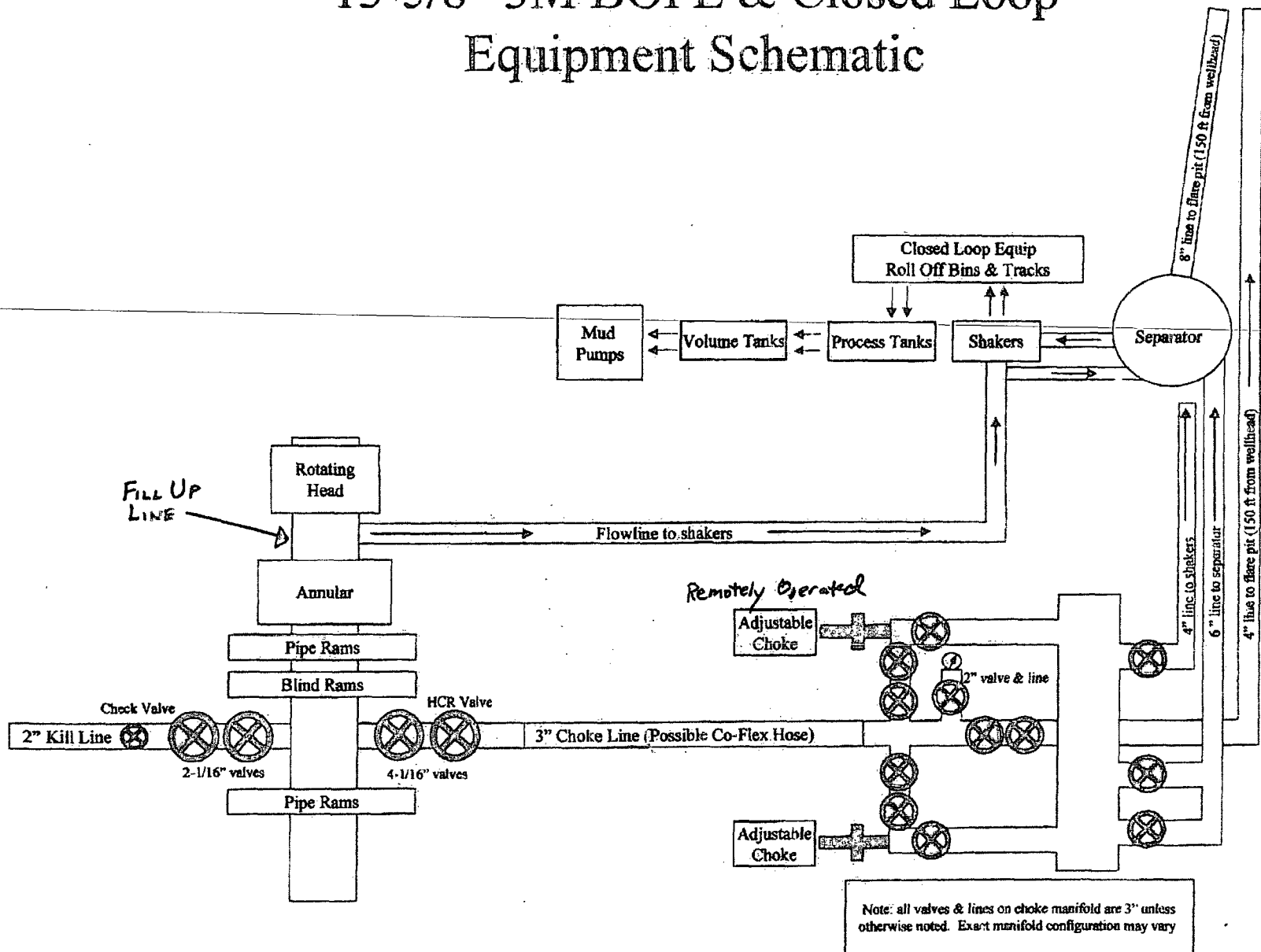
Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.65025° N	32° 39 min .900 sec
Longitude =	103.84782° W	103° 50 min 52.148 sec

Magnetic Declination =	7.50°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6661
Local Field Strength =	48664 nT	Magnetic Vector X = 23770 nT
Magnetic Dip =	60.48°	Magnetic Vector Y = 3130 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42348 nT
Spud Date =	Jun 15, 2013	Magnetic Vector H = 23975 nT

Signed: _____

Date: _____

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



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP

Antares 23 Federal 2H

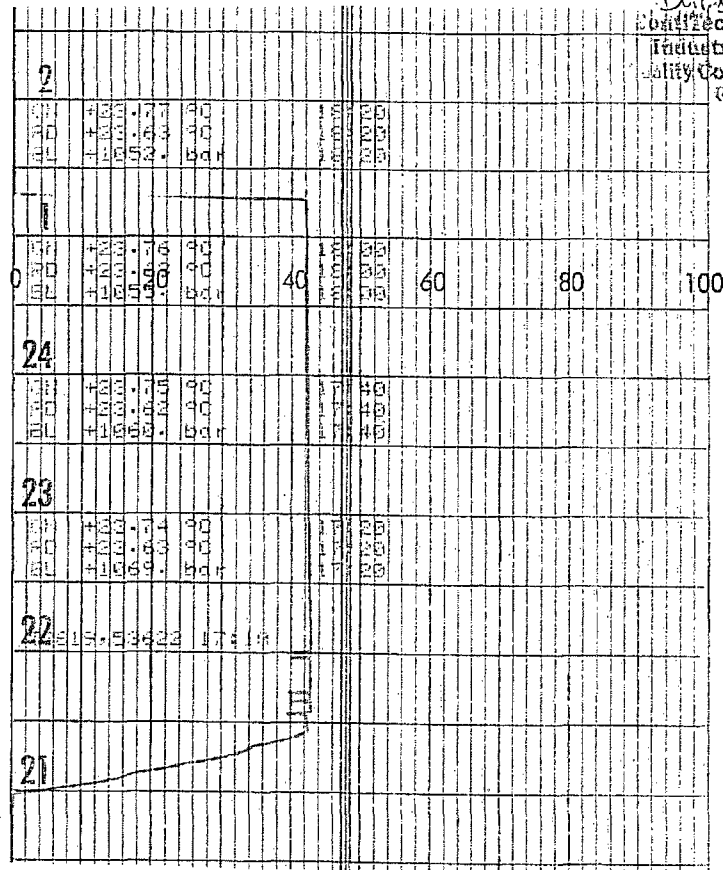
Surface Location: 1080' FNL & 225' FWL, Unit D, Sec 23 T19S R31E, Eddy, NM

Bottom Hole Location: 2310' FNL & 340' FEL, Unit H, Sec 23 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.

HARTMANN &

Comptech Rubber
Industrial Kft.
Quality Control Dept.
(2)





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

Hydrogen Sulfide (H_2S) Contingency Plan

For

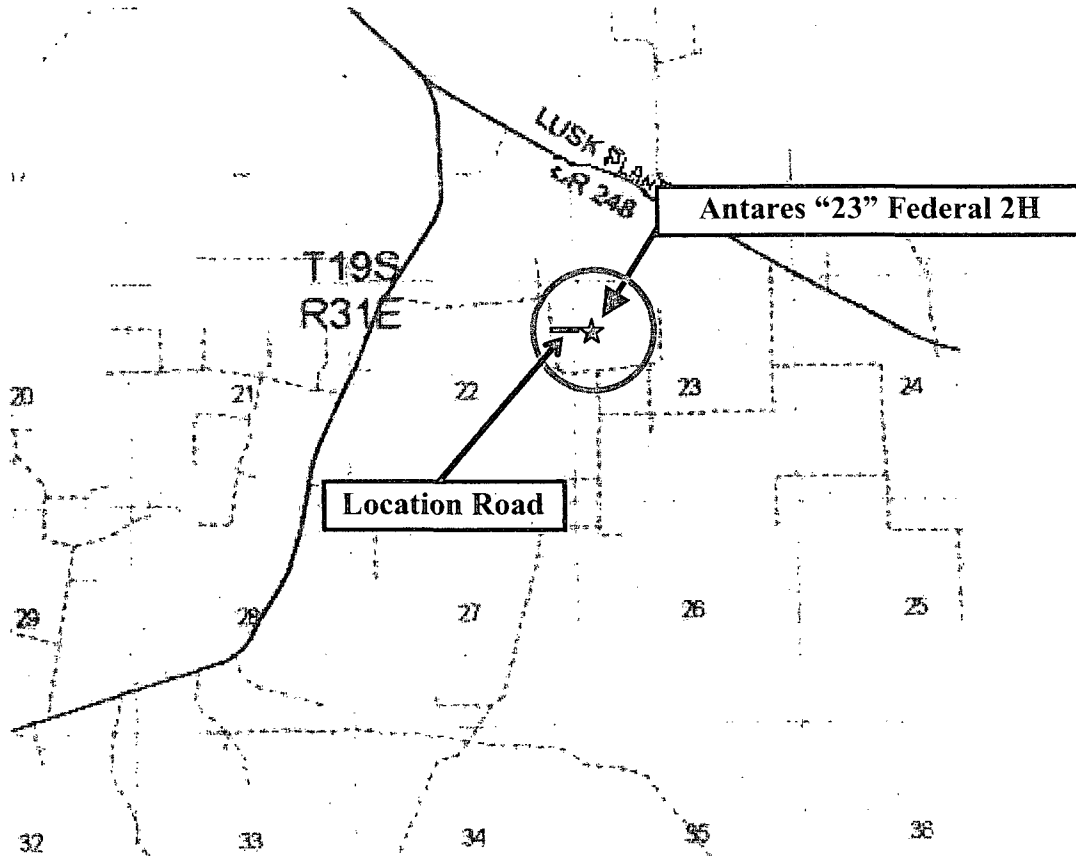
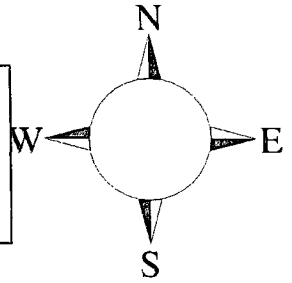
Antares "23" Federal 2H

Sec-23, T-19S R-31E
1080' FNL & 225' FWL,
LAT. = 32.6502500'N (NAD83)
LONG = 103.8478188'W

Eddy County NM

Antares "23" Federal 2H

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

<u>Eddy</u>	<u>Carlsbad</u>
<u>County</u>	State Police
<u>(575)</u>	City Police
	Sheriff's Office
	Ambulance.....
	Fire Department.....
	LEPC (Local Emergency Planning Committee).....
	US Bureau of Land Management
	New Mexico Emergency Response Commission (Santa Fe) ...
	24 HR
	National Emergency Response Center (Washington, DC) ..

Emergency Services

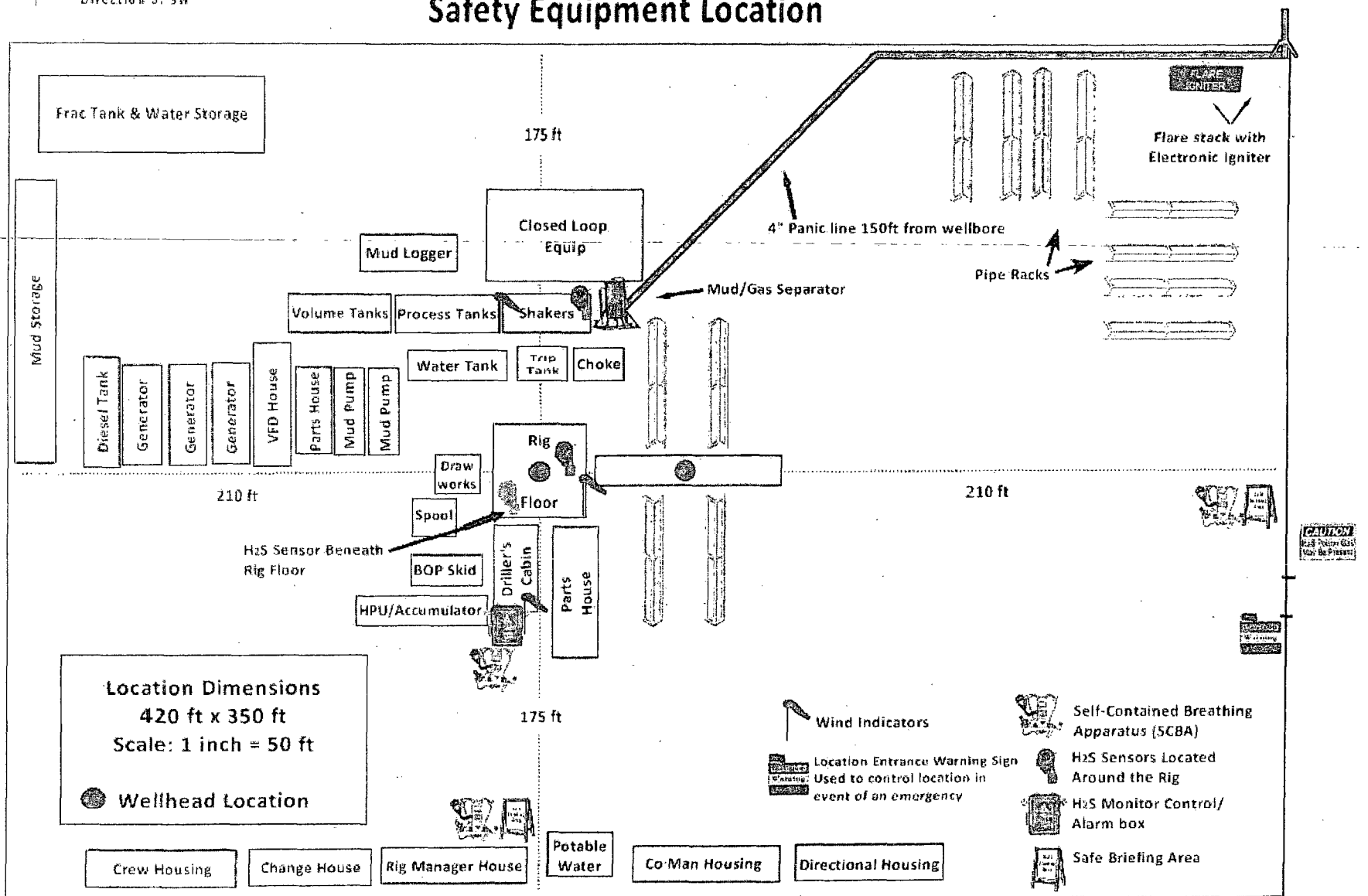
	Boots & Coots IWC
	Cudd Pressure Control.....
	Halliburton
	B. J. Services.....
<i>Give</i>	Flight For Life - Lubbock, TX
<i>GPS</i>	Aerocare - Lubbock, TX
<i>position:</i>	Med Flight Air Amb - Albuquerque, NM
	Lifeguard Air Med Svc. Albuquerque, NM

Prepared in conjunction with
Wade Rohloff





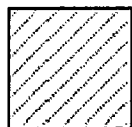
Devon Energy - 2 Well Pad Rig Location Layout Safety Equipment Location





Proposed Interim Site Reclamation

Devon Energy Production Co.
Antares 23 Fed 2H
1080' FNL & 225' FWL
Sec. 23-T19S-R31E
Eddy County, NM

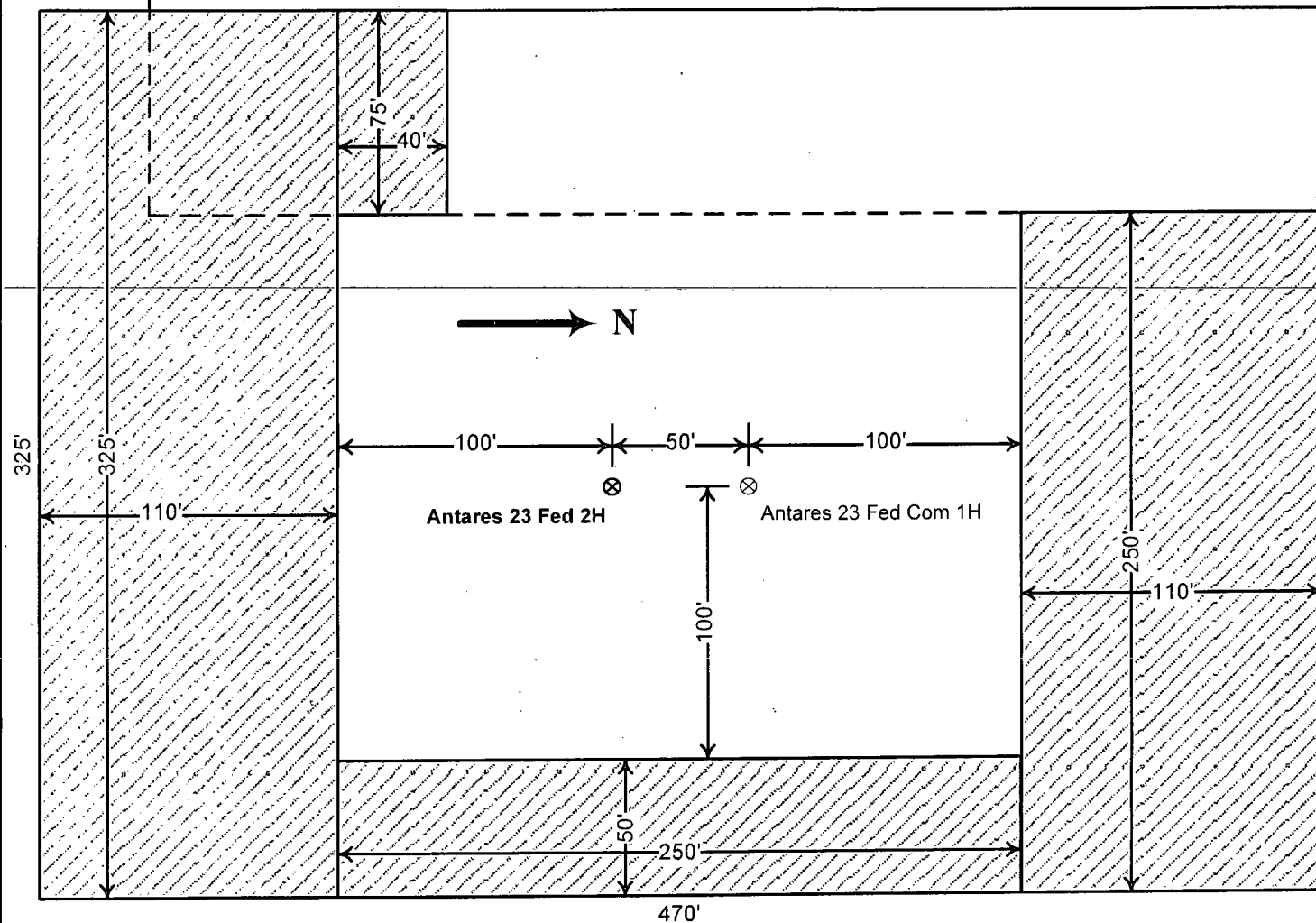


Proposed
Reclamation
Area



Scale: 1in = 60ft.

Proposed
Aquila 22 Fed
1H / 2H Pad



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Prod Co
LEASE NO.:	NM0107697
WELL NAME & NO.:	2H Antares 23 Federal
SURFACE HOLE FOOTAGE:	1080' FNL & 225' FWL
BOTTOM HOLE FOOTAGE	2310' FNL & 340' FEL
LOCATION:	Section 23, 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
 - Hackberry Lake OHV Area
- ☐ **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 – not requested
 - Electric Lines – not requested
- ☐ **Interim Reclamation**
- ☒ **Final Abandonment & Reclamation**