

12-955

CCD Artesia

Form 3160-3
(March 2012)

RECEIVED

JAN 31 2013

NMOCD ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 20145. Lease Serial No.
NM0560289; NM0560290

6. If Indian, Allottee or Tribe Name

TCS
2/6/20137. If Unit or CA Agreement, Name and No.
NM 70798X

8. Lease Name and Well No.

Burton Flat Deep Unit #58H <3022097>

9. API Well No.

30-015-41057

10. Field and Pool, or Exploratory

Avalon; Bone Spring, East <3713>

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 2, T21S-R27E12. County or Parish
Eddy County13. State
NM14. Distance in miles and direction from nearest town or post office*
Approximately 4 miles north of Carlsbad, NM15. Distance from proposed* 330'
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)16. No. of acres in lease
total acres - 60017. Spacing Unit dedicated to this well
S/2 S/3 of Sec 3-21S-27E or 160 acres18. Distance from proposed location* See attached map
to nearest well, drilling, completed,
applied for, on this lease, ft.19. Proposed Depth
TVD: 6,410' MD: 11,817'
MA x 659220. BLM/BIA Bond No. on file
CO-1104 & NMB-00080121. Elevations (Show whether DF, KDB, RT, GL, etc.)
3214.4' GL

22. Approximate date work will start*

23. Estimated duration
45 days

To be pad drilled w/BFDU #53H, 54H & 57H

24. Attachments

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

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

25. Signature *Patti Riechers*Name (Printed/Typed)
Patti RiechersDate
10/26/2012Title
Regulatory SpecialistApproved by (Signature)
/s/ Chris Walls

Name (Printed/Typed)

Date **JAN 28 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

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.

SEPTEMBER 20, 2012

Date of Survey

[Signature]

Signature and Seal of Professional Surveyor

Certificate Number: FILM ON BEH. OF ARAMILLO, PLS 12797

SURVEY NO. 1060A

Operators Representative:

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

James Allbee - Operations Engineer Advisor
Devon Energy Production Company, L.P.
333 West Sheridan
Oklahoma City, OK 73102-5010
(405) 228-8698 (office)
(405) 820-8682 (Cellular)

Don Mayberry - Superintendent
Devon Energy Production Company, L.P.
Post Office Box 250
Artesia, NM 88211-0250
(575) 748-3371 (office)
(575) 746-4945 (home)

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 22nd day of October, 2012.

Printed Name: Patti Riechers

Signed Name: Patti Riechers

Position Title: Operations Technician

Address: 333 W. Sheridan, OKC OK 73102

Telephone: (405)-228-4248

Field Representative (if not above signatory):

Address (if different from above):

Telephone (if different from above):

DRILLING PROGRAM

Devon Energy Production Company, LP
Burton Flat Deep Unit #58H

Surface Location: 1520' FSL & 50' FWL, Unit L, Sec 2 T21S R27E, Eddy, NM
Bottom Hole Location: 450' FSL & 330' FWL, Unit M, Sec 3 T21S R27E, Eddy, NM

1. Geologic Name of Surface Formation

a. Quaternary

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

a. Fresh Water	15'	
b. Rustler	surface	
c. Salado	237'	Barren
d. Base of Salt	405'	Barren
e. Tansil	445'	Barren
f. Yates	535'	Barren
g. Seven Rivers	690'	Barren
h. Capitan	805'	Water
i. Capitan Base	2625'	Barren
j. Delaware	2784'	Oil
k. Bone Spring Lm	5234'	Oil
l. 1 st Bone Spring Ss	6489'	Oil

Total Depth 6,410'

3. Casing Program: (All casing is new and API approved.)

<u>Hole</u> <u>Size</u>	<u>Hole</u> <u>Interval</u>	<u>OD</u> <u>Csg</u>	<u>Casing</u> <u>Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
26"	0' - 200'	20"	0' - 200' ^{5th} _{COA}	94#	BT&C	J/K-55
17 1/4"	200' - 700'	13 3/8"	0' - 700'	68#	BT&C	J/K-55
12 1/4"	700' - 2,700'	9 5/8"	0' - 2,700'	40#	LT&C	J-55
8 3/4"	2700' - 5,800'	5 1/2"	0' - 5,800'	17#	LT&C	HCP-110
8 3/4"	5800' - 11,816'	5 1/2"	5800' - 11,816'	17#	BT&C	HCP-110

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"	5.55	22.5	7.46
13 3/8"	2.12	4.75	9.58
9 5/8"	2.03	3.13	4.81
5 1/2"	2.42	3.45	2.30
5 1/2"	2.75	3.92	6.95

4. Cement Program: (all cement volumes based on at least 25% excess)

- a. 20" Surface **Lead** w/ 510 Cl C cmt + 2% bwoc Calcium Chloride + 0.125#/sx CF + 56.3% FW. 14.8 ppg. **Yield** 1.35 cf/sx. **TOC @** surface.
- b. 13 3/8" 1st Intermediate **Lead** w/ 415 sx Class C + 2% bwow Calcium Chloride + 0.125#/sx CF + 4% bwoc Bentonite + 81.4% FW, 13.5 ppg. **Yield** 1.75 cf/sx. **Tail** w/ 335 sx Class C + 2% bwow Calcium Chloride + 0.125#/sx CF + 56.3% FW, 14.8 ppg. **Yield** 1.35 cf/sx. **TOC @** surface.
- c. 9 5/8" 2nd Intermediate **Lead** w/ 700 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack CF + 3 lbs/sack LCM-1 + 1% bwoc Sodium Metasilicate + 89.7% FW. 12.6 ppg. **Yield** 1.73 cf/sx. **Tail** w/ 300 sx (60:40) Poz (Fly Ash):Cl C Cmt + 5% bwow Sodium Chloride + 0.125 lbs/sack CF + 0.4% bwoc Sodium Metasilicate + 4% bwoc (MPA-5, to enhance compressive, tensile, flexural strength development and reduce permeability) + 65.5% FW. 13.8 ppg. **Yield** 1.38 cf/sx. **TOC @** surface.
- d. 5 1/2" Production **1st Lead** w/ 615 sx 50:50 POZ (Fly Ash) Class H + 0.5% bwoc FL-52 + 0.15% bwoc (ASA-301, to reduce free water and settling in cmt slurries) + 10% bwoc Bentonite + 0.3% bwoc (R-21, temperature retarder) + 130.5% FW, 11.8 ppg. **Yield** 2.30 cf/sx. **2nd lead** w/415 sacks (35:65) Poz (Fly Ash):Cl H Cement + 3% bwow Sodium Chloride + 0.125 lbs/sack CF + 0.7% bwoc FL-52 + 6% bwoc Bentonite + 105.4% FW. 12.5 ppg. **Yield** 2.00 cf/sx. **Tail** w/ 1430 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 + 0.5% bwoc Sodium Metasilicate + 57.3% FW, 14.2 ppg. **Yield** 1.28 cf/sx. **TOC @** 600'.

The above cement volumes could be revised pending the caliper measurement from the open hole logs.

5. **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). The line will be kept as straight as possible with minimal turns.

6. **Proposed Mud Circulation System**

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 200'	8.4-9.0	30-34	NC	FW
200' - 700'	9.8-10.0	28-32	NC	Brine
700' - 2,700'	8.4-9.0	28-30	NC	FW
2700' - 11,816'	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.

7. **Auxiliary Well Control and Monitoring Equipment:**

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 13 3/8" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

8. **Logging, Coring, and Testing Program:**

- Drill stem tests will be based on geological sample shows.
- 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.
- The open hole electrical logging program will be:
 - Total Depth to Intermediate Casing and Gamma Ray. Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper.

- ## Compensated Neutron with Gamma Ray

9.

- 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 3000 psi and Estimated BHT 130°. No H2S is anticipated to be encountered.

10.

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

DEVON ENERGY

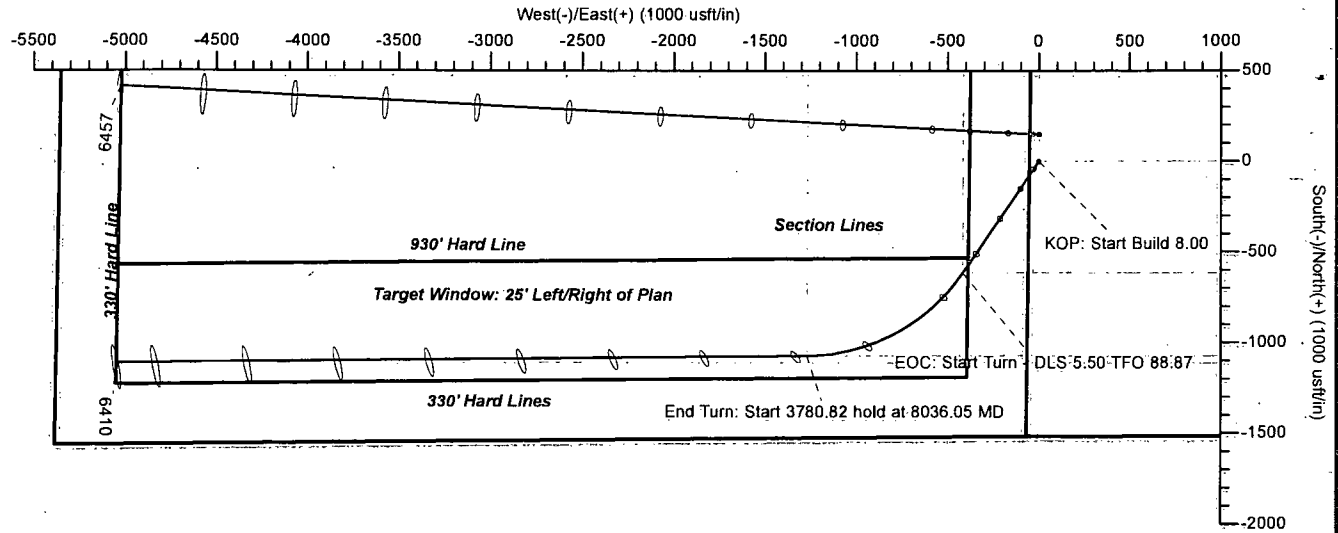
Project: Eddy County, NM (NAD-83)
Site: Burton Flat Deep Unit
Well: #58H
Wellbore: OH
Design: Plan #1

devon



Azimuths to Grid North
True North: -0.09°
Magnetic North: 7.63°

Magnetic Field
Strength: 48589.1snT
Dip Angle: 60.31°
Date: 10/11/2012
Model: IGRF2010

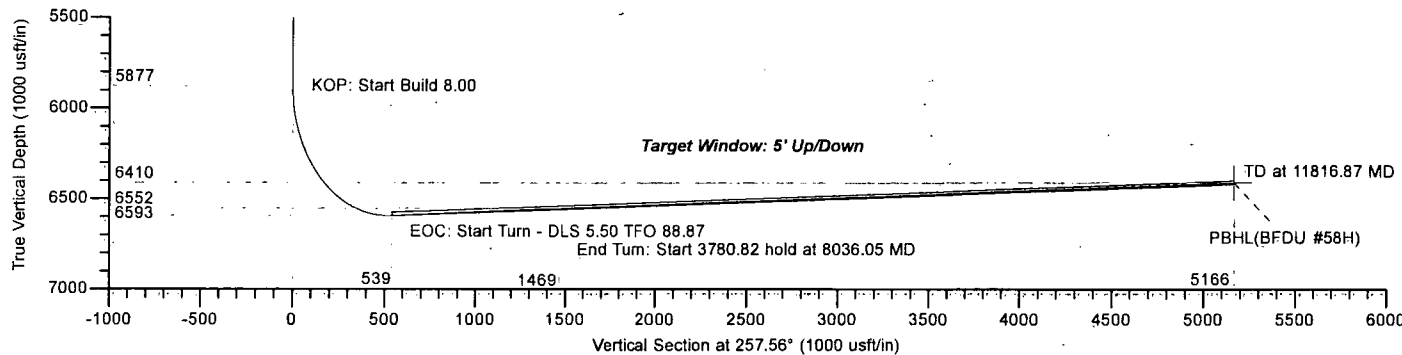


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(BFDU #58H)	0.00	0.00	0.00	547923.27	592065.06	32° 30' 22.298 N	104° 10' 7.606 W
PBHL(BFDU #58H)	6410.00	-1113.31	-5045.02	546809.96	587020.04	32° 30' 11.355 N	104° 11' 6.539 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5877.48	0.00	0.00	5877.48	0.00	0.00	0.00	0.00	0.00	KOP: Start Build 8.00
3	7029.36	92.15	214.00	6593.17	-616.03	-415.52	8.00	214.00	538.50	EOC: Start Turn - DLS 5.50 TFO 88.87
4	8036.05	92.15	269.41	6552.12	-1074.45	-1267.07	5.50	88.87	1468.84	End Turn: Start 3780.82 hold at 8036.05 MD
5	11816.87	92.15	269.41	6410.00	-1113.31	-5045.02	0.00	0.00	5166.40	TD at 11816.87 MD



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (#58H/OH)
Burton Flat Deep Unit
Created By: Tyler Carlson Date: 16/21, October 12 2012
Date: _____
Approved: _____ Date: _____

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #58H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	North Reference:	Grid
Well:	#58H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD-83)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Burton Flat Deep Unit		
Site Position:		Northing:	548,073.21 usft
From:	Map	Easting:	592,066.43 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 30' 23.782 N
		Longitude:	104° 10' 7.587 W
		Grid Convergence:	0.09 °

Well	#58H					
Well Position	+N/-S	-149.94 usft	Northing:	547,923.27 usft	Latitude:	32° 30' 22.298 N
	+E/-W	-1.37 usft	Easting:	592,065.06 usft	Longitude:	104° 10' 7.606 W
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,214.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/11/12	7.72	60.31	48,589

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	257.56

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,877.48	0.00	0.00	5,877.48	0.00	0.00	0.00	0.00	0.00	0.00	
7,029.36	92.15	214.00	6,593.17	-616.03	-415.52	8.00	8.00	0.00	214.00	
8,036.05	92.15	269.41	6,552.12	-1,074.45	-1,267.07	5.50	0.00	5.50	88.87	
11,816.87	92.15	269.41	6,410.00	-1,113.31	-5,045.02	0.00	0.00	0.00	0.00	PBHL(BFDU #58H)

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #58H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	North Reference:	Grid
Well:	#58H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #58H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	North Reference:	Grid
Well:	#58H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,877.48	0.00	0.00	5,877.48	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start Build 8.00									
5,900.00	1.80	214.00	5,900.00	-0.29	-0.20	0.26	8.00	8.00	0.00
5,950.00	5.80	214.00	5,949.88	-3.04	-2.05	2.66	8.00	8.00	0.00
6,000.00	9.80	214.00	5,999.40	-8.67	-5.85	7.58	8.00	8.00	0.00
6,050.00	13.80	214.00	6,048.34	-17.14	-11.56	14.99	8.00	8.00	0.00
6,100.00	17.80	214.00	6,096.44	-28.43	-19.18	24.85	8.00	8.00	0.00
6,150.00	21.80	214.00	6,143.47	-42.47	-28.65	37.12	8.00	8.00	0.00
6,200.00	25.80	214.00	6,189.21	-59.19	-39.93	51.74	8.00	8.00	0.00
6,250.00	29.80	214.00	6,233.43	-78.52	-52.96	68.64	8.00	8.00	0.00
6,300.00	33.80	214.00	6,275.91	-100.36	-67.70	87.73	8.00	8.00	0.00
6,350.00	37.80	214.00	6,316.46	-124.61	-84.05	108.93	8.00	8.00	0.00
6,400.00	41.80	214.00	6,354.86	-151.14	-101.94	132.12	8.00	8.00	0.00
6,450.00	45.80	214.00	6,390.94	-179.82	-121.29	157.19	8.00	8.00	0.00
6,500.00	49.80	214.00	6,424.52	-210.52	-142.00	184.03	8.00	8.00	0.00
6,550.00	53.80	214.00	6,455.43	-243.09	-163.97	212.50	8.00	8.00	0.00
6,600.00	57.80	214.00	6,483.53	-277.37	-187.09	242.46	8.00	8.00	0.00
6,650.00	61.80	214.00	6,508.68	-313.19	-211.25	273.78	8.00	8.00	0.00
6,700.00	65.80	214.00	6,530.75	-350.38	-236.33	306.28	8.00	8.00	0.00
6,750.00	69.80	214.00	6,549.63	-388.75	-262.21	339.82	8.00	8.00	0.00
6,800.00	73.80	214.00	6,565.25	-428.12	-288.77	374.24	8.00	8.00	0.00
6,850.00	77.80	214.00	6,577.51	-468.30	-315.87	409.36	8.00	8.00	0.00
6,900.00	81.80	214.00	6,586.36	-509.08	-343.38	445.02	8.00	8.00	0.00
6,950.00	85.80	214.00	6,591.76	-550.29	-371.17	481.03	8.00	8.00	0.00
7,000.00	89.80	214.00	6,593.67	-591.70	-399.11	517.23	8.00	8.00	0.00
7,029.36	92.15	214.00	6,593.17	-616.03	-415.52	538.50	8.00	8.00	0.00
EOC: Start Turn - DLS 5.50 TFO 88.87									
7,100.00	92.22	217.89	6,590.48	-673.17	-456.95	591.27	5.50	0.10	5.50
7,200.00	92.31	223.39	6,586.52	-748.96	-522.00	671.13	5.50	0.08	5.50
7,300.00	92.37	228.90	6,582.44	-818.17	-594.02	756.37	5.50	0.06	5.50
7,400.00	92.41	234.40	6,578.27	-880.14	-672.34	846.21	5.50	0.04	5.50
7,500.00	92.43	239.91	6,574.04	-934.31	-756.25	939.82	5.50	0.02	5.50
7,600.00	92.43	245.41	6,569.81	-980.18	-844.96	1,036.33	5.50	0.00	5.50
7,700.00	92.40	250.91	6,565.59	-1,017.33	-937.67	1,134.86	5.50	-0.03	5.50
7,800.00	92.35	256.42	6,561.44	-1,045.42	-1,033.51	1,234.51	5.50	-0.05	5.50
7,900.00	92.28	261.92	6,557.40	-1,064.18	-1,131.61	1,334.35	5.50	-0.07	5.50
8,000.00	92.19	267.43	6,553.49	-1,073.45	-1,231.07	1,433.46	5.50	-0.09	5.50
8,036.05	92.15	269.41	6,552.12	-1,074.45	-1,267.07	1,468.84	5.50	-0.10	5.50
End Turn: Start 3780.82 hold at 8036.05 MD									
8,100.00	92.15	269.41	6,549.72	-1,075.10	-1,330.98	1,531.38	0.00	0.00	0.00
8,200.00	92.15	269.41	6,545.96	-1,076.13	-1,430.90	1,629.18	0.00	0.00	0.00
8,300.00	92.15	269.41	6,542.20	-1,077.16	-1,530.83	1,726.98	0.00	0.00	0.00
8,400.00	92.15	269.41	6,538.44	-1,078.19	-1,630.75	1,824.78	0.00	0.00	0.00
8,500.00	92.15	269.41	6,534.68	-1,079.21	-1,730.67	1,922.57	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #58H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	North Reference:	Grid
Well:	#58H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,600.00	92.15	269.41	6,530.92	-1,080.24	-1,830.60	2,020.37	0.00	0.00	0.00
8,700.00	92.15	269.41	6,527.16	-1,081.27	-1,930.52	2,118.17	0.00	0.00	0.00
8,800.00	92.15	269.41	6,523.41	-1,082.30	-2,030.45	2,215.97	0.00	0.00	0.00
8,900.00	92.15	269.41	6,519.65	-1,083.33	-2,130.37	2,313.77	0.00	0.00	0.00
9,000.00	92.15	269.41	6,515.89	-1,084.35	-2,230.29	2,411.56	0.00	0.00	0.00
9,100.00	92.15	269.41	6,512.13	-1,085.38	-2,330.22	2,509.36	0.00	0.00	0.00
9,200.00	92.15	269.41	6,508.37	-1,086.41	-2,430.14	2,607.16	0.00	0.00	0.00
9,300.00	92.15	269.41	6,504.61	-1,087.44	-2,530.07	2,704.96	0.00	0.00	0.00
9,400.00	92.15	269.41	6,500.85	-1,088.47	-2,629.99	2,802.76	0.00	0.00	0.00
9,500.00	92.15	269.41	6,497.09	-1,089.49	-2,729.91	2,900.55	0.00	0.00	0.00
9,600.00	92.15	269.41	6,493.33	-1,090.52	-2,829.84	2,998.35	0.00	0.00	0.00
9,700.00	92.15	269.41	6,489.57	-1,091.55	-2,929.76	3,096.15	0.00	0.00	0.00
9,800.00	92.15	269.41	6,485.82	-1,092.58	-3,029.69	3,193.95	0.00	0.00	0.00
9,900.00	92.15	269.41	6,482.06	-1,093.61	-3,129.61	3,291.75	0.00	0.00	0.00
10,000.00	92.15	269.41	6,478.30	-1,094.63	-3,229.53	3,389.54	0.00	0.00	0.00
10,100.00	92.15	269.41	6,474.54	-1,095.66	-3,329.46	3,487.34	0.00	0.00	0.00
10,200.00	92.15	269.41	6,470.78	-1,096.69	-3,429.38	3,585.14	0.00	0.00	0.00
10,300.00	92.15	269.41	6,467.02	-1,097.72	-3,529.31	3,682.94	0.00	0.00	0.00
10,400.00	92.15	269.41	6,463.26	-1,098.75	-3,629.23	3,780.73	0.00	0.00	0.00
10,500.00	92.15	269.41	6,459.50	-1,099.78	-3,729.15	3,878.53	0.00	0.00	0.00
10,600.00	92.15	269.41	6,455.74	-1,100.80	-3,829.08	3,976.33	0.00	0.00	0.00
10,700.00	92.15	269.41	6,451.98	-1,101.83	-3,929.00	4,074.13	0.00	0.00	0.00
10,800.00	92.15	269.41	6,448.22	-1,102.86	-4,028.93	4,171.93	0.00	0.00	0.00
10,900.00	92.15	269.41	6,444.47	-1,103.89	-4,128.85	4,269.72	0.00	0.00	0.00
11,000.00	92.15	269.41	6,440.71	-1,104.92	-4,228.77	4,367.52	0.00	0.00	0.00
11,100.00	92.15	269.41	6,436.95	-1,105.94	-4,328.70	4,465.32	0.00	0.00	0.00
11,200.00	92.15	269.41	6,433.19	-1,106.97	-4,428.62	4,563.12	0.00	0.00	0.00
11,300.00	92.15	269.41	6,429.43	-1,108.00	-4,528.55	4,660.92	0.00	0.00	0.00
11,400.00	92.15	269.41	6,425.67	-1,109.03	-4,628.47	4,758.71	0.00	0.00	0.00
11,500.00	92.15	269.41	6,421.91	-1,110.06	-4,728.39	4,856.51	0.00	0.00	0.00
11,600.00	92.15	269.41	6,418.15	-1,111.08	-4,828.32	4,954.31	0.00	0.00	0.00
11,700.00	92.15	269.41	6,414.39	-1,112.11	-4,928.24	5,052.11	0.00	0.00	0.00
11,800.00	92.15	269.41	6,410.63	-1,113.14	-5,028.17	5,149.91	0.00	0.00	0.00
11,816.87	92.15	269.41	6,410.00	-1,113.31	-5,045.02	5,166.40	0.00	0.00	0.00
TD at 11816.87 MD									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL(BFDU #58H)	0.00	0.00	0.00	0.00	0.00	547,923.27	592,065.06	32° 30' 22.298 N	104° 10' 7.606 W
- plan hits target center									
- Point									
PBHL(BFDU #58H)	-2.15	257.56	6,410.00	-1,113.31	-5,045.02	546,809.96	587,020.04	32° 30' 11.355 N	104° 11' 6.539 W
- plan hits target center									
- Rectangle (sides W0.00 H4,627.90 D20.00)									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #58H
Company:	DEVON ENERGY	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site:	Burton Flat Deep Unit	North Reference:	Grid
Well:	#58H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,877.48	5,877.48	0.00	0.00	KOP: Start Build 8.00
7,029.36	6,593.17	-616.03	-415.52	EOC: Start Turn - DLS 5.50 TFO 88.87
8,036.05	6,552.12	-1,074.45	-1,267.07	End Turn: Start 3780.82 hold at 8036.05 MD
11,816.87	6,410.00	-1,113.31	-5,045.02	TD at 11816.87 MD

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #58H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#58H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	10/12/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	11,816.87	Plan #1 (OH)	LEAM MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Burton Flat Deep Unit						
#57H - OH - Plan #1	5,877.48	5,877.48	149.95	123.81	5.736	CC, ES
#57H - OH - Plan #1	5,900.00	5,900.00	150.24	124.01	5.729	SF

Burton Flat Deep Unit - #57H - OH - Plan #1												Offset Site Error: 0.00 usft	
0-LEAM MWD												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.52	149.94	1.37	149.95				
100.00	100.00	100.00	100.00	0.08	0.08	0.52	149.94	1.37	149.95	149.78	0.17	889.494	
200.00	200.00	200.00	200.00	0.31	0.31	0.52	149.94	1.37	149.95	149.33	0.62	242.590	
300.00	300.00	300.00	300.00	0.53	0.53	0.52	149.94	1.37	149.95	148.88	1.07	140.447	
400.00	400.00	400.00	400.00	0.76	0.76	0.52	149.94	1.37	149.95	148.43	1.52	98.833	
500.00	500.00	500.00	500.00	0.98	0.98	0.52	149.94	1.37	149.95	147.98	1.97	76.242	
600.00	600.00	600.00	600.00	1.21	1.21	0.52	149.94	1.37	149.95	147.53	2.42	62.058	
700.00	700.00	700.00	700.00	1.43	1.43	0.52	149.94	1.37	149.95	147.08	2.87	52.323	
800.00	800.00	800.00	800.00	1.66	1.66	0.52	149.94	1.37	149.95	146.63	3.32	45.229	
900.00	900.00	900.00	900.00	1.88	1.88	0.52	149.94	1.37	149.95	146.18	3.76	39.828	
1,000.00	1,000.00	1,000.00	1,000.00	2.11	2.11	0.52	149.94	1.37	149.95	145.73	4.21	35.580	
1,100.00	1,100.00	1,100.00	1,100.00	2.33	2.33	0.52	149.94	1.37	149.95	145.28	4.66	32.150	
1,200.00	1,200.00	1,200.00	1,200.00	2.56	2.56	0.52	149.94	1.37	149.95	144.83	5.11	29.324	
1,300.00	1,300.00	1,300.00	1,300.00	2.78	2.78	0.52	149.94	1.37	149.95	144.38	5.56	26.954	
1,400.00	1,400.00	1,400.00	1,400.00	3.01	3.01	0.52	149.94	1.37	149.95	143.93	6.01	24.939	
1,500.00	1,500.00	1,500.00	1,500.00	3.23	3.23	0.52	149.94	1.37	149.95	143.48	6.46	23.204	
1,600.00	1,600.00	1,600.00	1,600.00	3.46	3.46	0.52	149.94	1.37	149.95	143.03	6.91	21.695	
1,700.00	1,700.00	1,700.00	1,700.00	3.68	3.68	0.52	149.94	1.37	149.95	142.59	7.36	20.370	
1,800.00	1,800.00	1,800.00	1,800.00	3.91	3.91	0.52	149.94	1.37	149.95	142.14	7.81	19.198	
1,900.00	1,900.00	1,900.00	1,900.00	4.13	4.13	0.52	149.94	1.37	149.95	141.69	8.26	18.153	
2,000.00	2,000.00	2,000.00	2,000.00	4.35	4.35	0.52	149.94	1.37	149.95	141.24	8.71	17.216	
2,100.00	2,100.00	2,100.00	2,100.00	4.58	4.58	0.52	149.94	1.37	149.95	140.79	9.16	16.371	
2,200.00	2,200.00	2,200.00	2,200.00	4.80	4.80	0.52	149.94	1.37	149.95	140.34	9.61	15.605	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #58H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#58H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Burton Flat Deep Unit - #57H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
2,300.00	2,300.00	2,300.00	2,300.00	5.03	5.03	0.52	149.94	1.37	149.95	139.89	10.06	14.908	
2,400.00	2,400.00	2,400.00	2,400.00	5.25	5.25	0.52	149.94	1.37	149.95	139.44	10.51	14.270	
2,500.00	2,500.00	2,500.00	2,500.00	5.48	5.48	0.52	149.94	1.37	149.95	138.99	10.96	13.685	
2,600.00	2,600.00	2,600.00	2,600.00	5.70	5.70	0.52	149.94	1.37	149.95	138.54	11.41	13.145	
2,700.00	2,700.00	2,700.00	2,700.00	5.93	5.93	0.52	149.94	1.37	149.95	138.09	11.86	12.647	
2,800.00	2,800.00	2,800.00	2,800.00	6.15	6.15	0.52	149.94	1.37	149.95	137.64	12.31	12.185	
2,900.00	2,900.00	2,900.00	2,900.00	6.38	6.38	0.52	149.94	1.37	149.95	137.19	12.76	11.755	
3,000.00	3,000.00	3,000.00	3,000.00	6.60	6.60	0.52	149.94	1.37	149.95	136.74	13.21	11.355	
3,100.00	3,100.00	3,100.00	3,100.00	6.83	6.83	0.52	149.94	1.37	149.95	136.29	13.65	10.981	
3,200.00	3,200.00	3,200.00	3,200.00	7.05	7.05	0.52	149.94	1.37	149.95	135.84	14.10	10.631	
3,300.00	3,300.00	3,300.00	3,300.00	7.28	7.28	0.52	149.94	1.37	149.95	135.39	14.55	10.303	
3,400.00	3,400.00	3,400.00	3,400.00	7.50	7.50	0.52	149.94	1.37	149.95	134.94	15.00	9.994	
3,500.00	3,500.00	3,500.00	3,500.00	7.73	7.73	0.52	149.94	1.37	149.95	134.49	15.45	9.704	
3,600.00	3,600.00	3,600.00	3,600.00	7.95	7.95	0.52	149.94	1.37	149.95	134.04	15.90	9.429	
3,700.00	3,700.00	3,700.00	3,700.00	8.18	8.18	0.52	149.94	1.37	149.95	133.59	16.35	9.170	
3,800.00	3,800.00	3,800.00	3,800.00	8.40	8.40	0.52	149.94	1.37	149.95	133.15	16.80	8.925	
3,900.00	3,900.00	3,900.00	3,900.00	8.63	8.63	0.52	149.94	1.37	149.95	132.70	17.25	8.692	
4,000.00	4,000.00	4,000.00	4,000.00	8.85	8.85	0.52	149.94	1.37	149.95	132.25	17.70	8.471	
4,100.00	4,100.00	4,100.00	4,100.00	9.07	9.07	0.52	149.94	1.37	149.95	131.80	18.15	8.262	
4,200.00	4,200.00	4,200.00	4,200.00	9.30	9.30	0.52	149.94	1.37	149.95	131.35	18.60	8.062	
4,300.00	4,300.00	4,300.00	4,300.00	9.52	9.52	0.52	149.94	1.37	149.95	130.90	19.05	7.872	
4,400.00	4,400.00	4,400.00	4,400.00	9.75	9.75	0.52	149.94	1.37	149.95	130.45	19.50	7.690	
4,500.00	4,500.00	4,500.00	4,500.00	9.97	9.97	0.52	149.94	1.37	149.95	130.00	19.95	7.517	
4,600.00	4,600.00	4,600.00	4,600.00	10.20	10.20	0.52	149.94	1.37	149.95	129.55	20.40	7.351	
4,700.00	4,700.00	4,700.00	4,700.00	10.42	10.42	0.52	149.94	1.37	149.95	129.10	20.85	7.193	
4,800.00	4,800.00	4,800.00	4,800.00	10.65	10.65	0.52	149.94	1.37	149.95	128.65	21.30	7.041	
4,900.00	4,900.00	4,900.00	4,900.00	10.87	10.87	0.52	149.94	1.37	149.95	128.20	21.75	6.895	
5,000.00	5,000.00	5,000.00	5,000.00	11.10	11.10	0.52	149.94	1.37	149.95	127.75	22.20	6.756	
5,100.00	5,100.00	5,100.00	5,100.00	11.32	11.32	0.52	149.94	1.37	149.95	127.30	22.65	6.622	
5,200.00	5,200.00	5,200.00	5,200.00	11.55	11.55	0.52	149.94	1.37	149.95	126.85	23.09	6.493	
5,300.00	5,300.00	5,300.00	5,300.00	11.77	11.77	0.52	149.94	1.37	149.95	126.40	23.54	6.369	
5,400.00	5,400.00	5,400.00	5,400.00	12.00	12.00	0.52	149.94	1.37	149.95	125.95	23.99	6.249	
5,500.00	5,500.00	5,500.00	5,500.00	12.22	12.22	0.52	149.94	1.37	149.95	125.50	24.44	6.134	
5,600.00	5,600.00	5,600.00	5,600.00	12.45	12.45	0.52	149.94	1.37	149.95	125.05	24.89	6.024	
5,700.00	5,700.00	5,700.00	5,700.00	12.67	12.67	0.52	149.94	1.37	149.95	124.60	25.34	5.917	
5,800.00	5,800.00	5,800.00	5,800.00	12.90	12.90	0.52	149.94	1.37	149.95	124.15	25.79	5.814	
5,877.48	5,877.48	5,877.48	5,877.48	13.07	13.07	0.52	149.94	1.37	149.95	123.81	26.14	5.736 CC, ES	
5,900.00	5,900.00	5,900.00	5,900.00	13.11	13.12	146.58	149.94	1.37	150.24	124.01	26.23	5.729 SF	
5,950.00	5,949.88	5,949.88	5,949.88	13.20	13.23	147.15	149.94	1.37	153.02	126.67	26.34	5.808	
6,000.00	5,999.40	5,999.40	5,999.40	13.29	13.34	148.23	149.94	1.36	158.77	132.40	26.37	6.021	
6,050.00	6,048.34	6,048.34	6,048.49	13.38	13.44	148.88	150.07	-1.02	167.54	141.25	26.29	6.373	
6,100.00	6,096.44	6,097.35	6,096.82	13.47	13.54	148.51	150.41	-7.52	179.22	153.08	26.14	6.857	
6,150.00	6,143.47	6,145.28	6,143.60	13.57	13.64	147.29	150.96	-17.88	193.73	167.79	25.94	7.470	
6,200.00	6,189.21	6,191.95	6,188.16	13.67	13.75	145.41	151.69	-31.69	211.05	185.34	25.72	8.207	
6,250.00	6,233.43	6,237.01	6,229.99	13.79	13.86	143.04	152.58	-48.42	231.18	205.66	25.51	9.061	
6,300.00	6,275.91	6,280.24	6,268.75	13.93	13.97	140.33	153.59	-67.50	254.06	228.69	25.37	10.015	
6,350.00	6,316.46	6,321.46	6,304.27	14.09	14.10	137.37	154.70	-88.36	279.61	254.29	25.32	11.045	
6,400.00	6,354.86	6,360.62	6,336.55	14.28	14.24	134.22	155.88	-110.50	307.68	282.29	25.39	12.120	
6,450.00	6,390.94	6,397.71	6,365.65	14.50	14.38	130.89	157.09	-133.44	338.08	312.47	25.61	13.202	
6,500.00	6,424.52	6,432.78	6,391.75	14.76	14.55	127.38	158.33	-156.83	370.61	344.60	26.01	14.251	
6,550.00	6,455.43	6,465.92	6,415.05	15.06	14.72	123.69	159.58	-180.36	405.03	378.45	26.58	15.238	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #58H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#58H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design Burton Flat Deep Unit - #57H - OH - Plan #1														Offset Site Error:	0.00 usft
Survey Program: O-LEAM MWD														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Tooface (")	Distance		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)										
6,600.00	6,483.53	6,497.26	6,435.80	15.41	14.91	119.79	160.83	-203.80	441.11	413.78	27.33	16.142			
6,650.00	6,508.68	6,526.93	6,454.23	15.80	15.11	115.67	162.06	-227.02	478.62	450.39	28.23	16.954			
6,700.00	6,530.75	6,555.08	6,470.58	16.23	15.32	111.33	163.27	-249.89	517.34	488.09	29.24	17.690			
6,750.00	6,549.63	6,581.86	6,485.08	16.71	15.54	106.78	164.46	-272.38	557.06	526.73	30.33	18.369			
6,800.00	6,565.25	6,607.42	6,497.92	17.23	15.77	102.03	165.64	-294.45	597.59	566.18	31.40	19.029			
6,850.00	6,577.51	6,631.93	6,509.30	17.79	16.01	97.15	166.79	-316.12	638.73	606.31	32.42	19.702			
6,900.00	6,586.36	6,655.52	6,519.36	18.39	16.25	92.18	167.92	-337.43	680.33	647.02	33.31	20.423			
6,950.00	6,591.76	6,678.35	6,528.25	19.02	16.51	87.20	169.03	-358.43	722.23	688.18	34.04	21.215			
7,000.00	6,593.67	6,700.00	6,535.91	19.67	16.75	82.27	170.10	-378.65	764.26	729.68	34.58	22.098			
7,029.36	6,593.17	6,713.38	6,540.25	20.07	16.92	79.49	170.77	-391.28	788.95	754.12	34.83	22.651			
7,100.00	6,590.48	6,746.52	6,549.73	21.05	17.34	82.21	172.46	-422.99	847.29	810.97	36.32	23.330			
7,200.00	6,586.52	6,802.01	6,561.45	22.52	18.11	84.94	175.33	-477.13	925.72	887.27	38.45	24.074			
7,300.00	6,582.44	6,867.22	6,568.44	24.10	19.11	86.59	178.76	-541.84	998.39	957.62	40.77	24.488			
7,400.00	6,578.27	6,941.21	6,568.23	25.77	20.34	87.38	182.68	-615.70	1,064.37	1,021.04	43.34	24.561			
7,500.00	6,574.04	7,022.21	6,566.19	27.50	21.77	87.94	186.97	-696.56	1,122.89	1,076.73	46.16	24.326			
7,600.00	6,569.81	7,108.45	6,564.01	29.27	23.38	88.41	191.54	-782.65	1,173.39	1,124.19	49.20	23.850			
7,700.00	6,565.59	7,199.13	6,561.73	31.08	25.18	88.83	196.34	-873.17	1,215.39	1,163.00	52.39	23.200			
7,800.00	6,561.44	7,293.43	6,559.35	32.90	27.12	89.20	201.34	-967.31	1,248.51	1,192.88	55.63	22.443			
7,900.00	6,557.40	7,390.47	6,556.91	34.70	29.19	89.53	206.48	-1,064.18	1,272.45	1,213.64	58.81	21.637			
8,000.00	6,553.49	7,489.36	6,554.42	36.49	31.35	89.83	211.71	-1,162.90	1,286.97	1,225.16	61.82	20.819			
8,036.05	6,552.12	7,525.28	6,553.51	37.13	32.14	89.93	213.62	-1,198.77	1,289.87	1,226.92	62.95	20.491			
8,100.00	6,549.72	7,589.10	6,551.91	38.27	33.57	89.96	217.00	-1,262.48	1,293.92	1,228.17	65.75	19.680			
8,200.00	6,545.96	7,688.90	6,549.39	40.10	35.83	90.02	222.28	-1,362.10	1,300.24	1,230.05	70.19	18.524			
8,300.00	6,542.20	7,788.69	6,546.88	42.00	38.12	90.07	227.57	-1,461.72	1,306.57	1,231.86	74.70	17.490			
8,400.00	6,538.44	7,888.48	6,544.36	43.96	40.44	90.12	232.85	-1,561.34	1,312.89	1,233.62	79.28	16.561			
8,500.00	6,534.68	7,988.27	6,541.85	45.98	42.77	90.18	238.14	-1,660.96	1,319.22	1,235.32	83.90	15.725			
8,600.00	6,530.92	8,088.06	6,539.34	48.04	45.13	90.23	243.43	-1,760.58	1,325.55	1,236.99	88.56	14.969			
8,700.00	6,527.16	8,187.86	6,536.82	50.14	47.50	90.28	248.71	-1,860.20	1,331.88	1,238.62	93.25	14.283			
8,800.00	6,523.41	8,287.65	6,534.31	52.27	49.88	90.33	254.00	-1,959.82	1,338.21	1,240.23	97.98	13.659			
8,900.00	6,519.65	8,387.44	6,531.80	54.44	52.28	90.38	259.28	-2,059.44	1,344.54	1,241.81	102.73	13.089			
9,000.00	6,515.89	8,487.23	6,529.28	56.64	54.68	90.43	264.57	-2,159.06	1,350.87	1,243.37	107.50	12.566			
9,100.00	6,512.13	8,587.03	6,526.77	58.86	57.09	90.48	269.85	-2,258.68	1,357.20	1,244.91	112.29	12.087			
9,200.00	6,508.37	8,686.82	6,524.25	61.10	59.51	90.53	275.14	-2,358.30	1,363.54	1,246.44	117.10	11.644			
9,300.00	6,504.61	8,786.61	6,521.74	63.37	61.94	90.58	280.43	-2,457.92	1,369.87	1,247.95	121.92	11.236			
9,400.00	6,500.85	8,886.40	6,519.23	65.65	64.37	90.63	285.71	-2,557.54	1,376.21	1,249.45	126.76	10.857			
9,500.00	6,497.09	8,986.19	6,516.71	67.94	66.81	90.68	291.00	-2,657.16	1,382.55	1,250.94	131.60	10.505			
9,600.00	6,493.33	9,085.99	6,514.20	70.25	69.25	90.73	296.28	-2,756.78	1,388.89	1,252.42	136.46	10.178			
9,700.00	6,489.57	9,185.78	6,511.69	72.58	71.70	90.77	301.57	-2,856.40	1,395.22	1,253.89	141.33	9.872			
9,800.00	6,485.82	9,285.57	6,509.17	74.91	74.15	90.82	306.85	-2,956.02	1,401.57	1,255.36	146.21	9.586			
9,900.00	6,482.06	9,385.36	6,506.66	77.26	76.61	90.87	312.14	-3,055.64	1,407.91	1,256.82	151.09	9.318			
10,000.00	6,478.30	9,485.16	6,504.14	79.61	79.06	90.91	317.43	-3,155.27	1,414.25	1,258.27	155.98	9.067			
10,100.00	6,474.54	9,584.95	6,501.63	81.98	81.52	90.96	322.71	-3,254.89	1,420.59	1,259.72	160.88	8.830			
10,200.00	6,470.78	9,684.74	6,499.12	84.35	83.99	91.00	328.00	-3,354.51	1,426.94	1,261.16	165.78	8.608			
10,300.00	6,467.02	9,784.53	6,496.60	86.73	86.45	91.05	333.28	-3,454.13	1,433.28	1,262.60	170.68	8.397			
10,400.00	6,463.26	9,884.33	6,494.09	89.12	88.92	91.09	338.57	-3,553.75	1,439.63	1,264.03	175.60	8.199			
10,500.00	6,459.50	9,984.12	6,491.58	91.51	91.39	91.14	343.85	-3,653.37	1,445.97	1,265.46	180.51	8.010			
10,600.00	6,455.74	10,083.91	6,489.06	93.91	93.86	91.18	349.14	-3,752.99	1,452.32	1,266.89	185.43	7.832			
10,700.00	6,451.98	10,183.70	6,486.55	96.31	96.33	91.22	354.43	-3,852.61	1,458.67	1,268.32	190.35	7.663			
10,800.00	6,448.22	10,283.49	6,484.03	98.72	98.80	91.27	359.71	-3,952.23	1,465.02	1,269.74	195.28	7.502			
10,900.00	6,444.47	10,383.29	6,481.52	101.13	101.28	91.31	365.00	-4,051.85	1,471.37	1,271.16	200.21	7.349			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well #58H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Reference Site:	Burton Flat Deep Unit	MD Reference:	GE 3214' + KB 25' @ 3239.00usft (Original Well Elev)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#58H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design													Offset Site Error:	0.00 usft
Burton Flat Deep Unit - #57H - OH - Plan #1													Offset Well Error:	0.00 usft
Survey Program: 0-LEAM MWD														
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
11,000.00	6,440.71	10,483.08	6,479.01	103.55	103.76	91.35	370.28	-4,151.47	1,477.72	1,272.58	205.14	7.203		
11,100.00	6,436.95	10,582.87	6,476.49	105.97	106.23	91.39	375.57	-4,251.09	1,484.07	1,274.00	210.07	7.065		
11,200.00	6,433.19	10,682.66	6,473.98	108.40	108.71	91.44	380.85	-4,350.71	1,490.42	1,275.41	215.01	6.932		
11,300.00	6,429.43	10,782.46	6,471.47	110.82	111.19	91.48	386.14	-4,450.33	1,496.77	1,276.83	219.95	6.805		
11,400.00	6,425.67	10,882.25	6,468.95	113.26	113.67	91.52	391.43	-4,549.95	1,503.13	1,278.24	224.89	6.684		
11,500.00	6,421.91	10,982.04	6,466.44	115.69	116.16	91.56	396.71	-4,649.57	1,509.48	1,279.65	229.83	6.568		
11,600.00	6,418.15	11,081.83	6,463.92	118.13	118.64	91.60	402.00	-4,749.19	1,515.84	1,281.06	234.78	6.457		
11,700.00	6,414.39	11,181.62	6,461.41	120.57	121.12	91.64	407.28	-4,848.81	1,522.19	1,282.47	239.72	6.350		
11,800.00	6,410.63	11,281.42	6,458.90	123.01	123.61	91.68	412.57	-4,948.43	1,528.55	1,283.88	244.67	6.247		
11,816.87	6,410.00	11,298.25	6,458.47	123.42	124.03	91.68	413.46	-4,965.24	1,529.62	1,284.12	245.50	6.231		

HALLIBURTON

North Reference Sheet for Burton Flat Deep Unit - Burton Flat Deep Unit 58H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to GL3221.6' + 25'KB @ 3246.60ft (TBD). Northing and Easting are relative to Burton Flat Deep Unit 58H Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin:0° 0' 0.000"E, Latitude Origin:0° 0' 0.000"N

False Easting: 541,337.50ft, False Northing: 0.00ft, Scale Reduction: 0.99991204

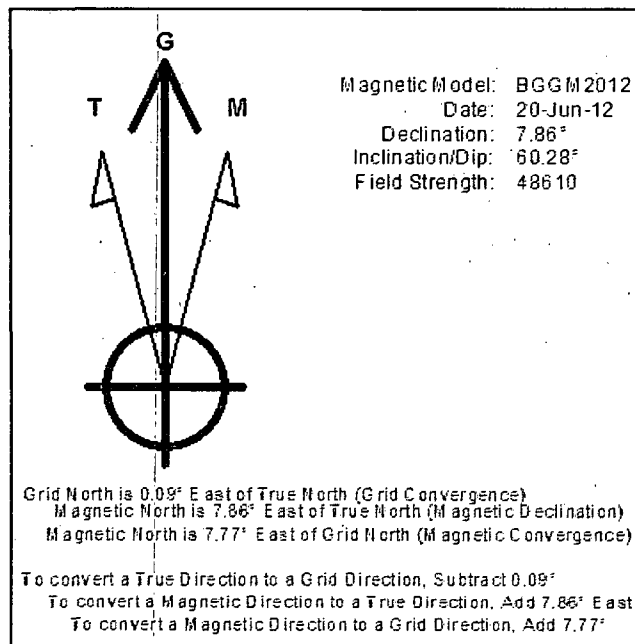
Grid Coordinates of Well: 547,121.40 ft N, 592,057.52 ft E

Geographical Coordinates of Well: 32° 30' 14.36" N, 104° 10' 07.71" W

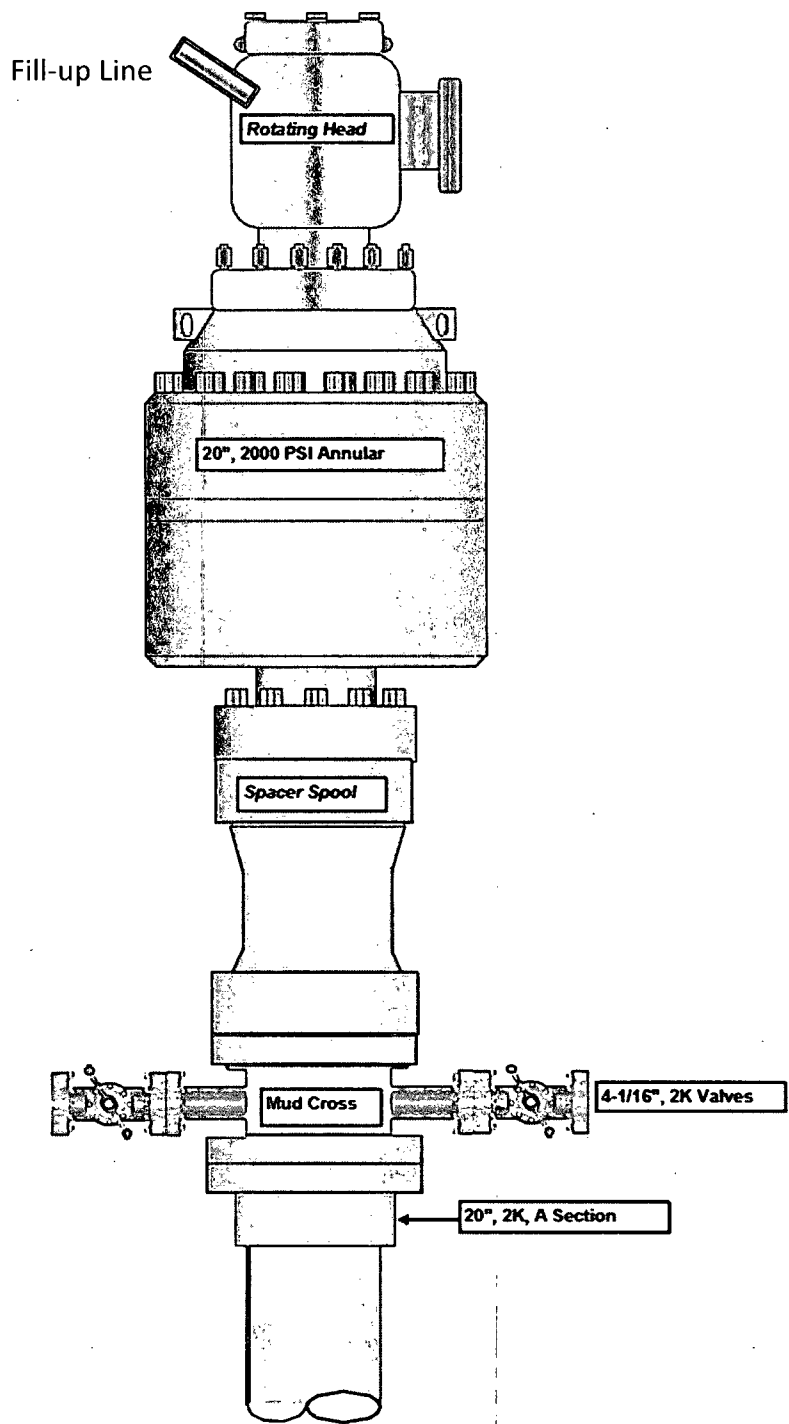
Grid Convergence at Surface is: 0.09°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,396.69ft the Bottom Hole Displacement is 5,047.18ft in the Direction of 266.46° (Grid).

Magnetic Convergence at surface is: -7.77° (20 June 2012, , BGGM2012)



20" 2K Annular

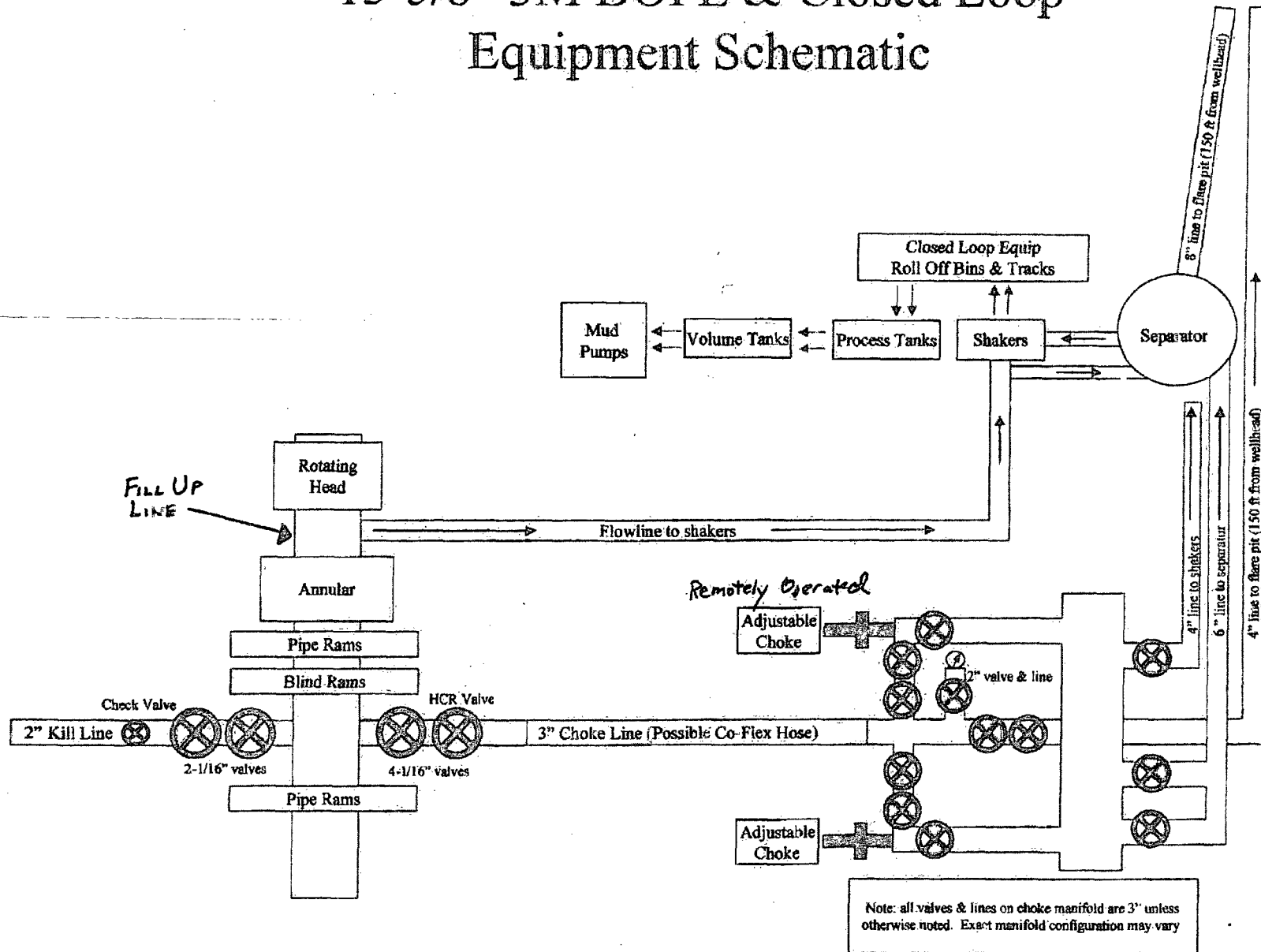


NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Burton Flat Deep Unit #58H

Surface Location: 718' FSL & 50' FWL, Unit M, Sec 2 T21S R27E, Eddy, NM
Bottom Hole Location: 450' FSL & 330' FWL, Unit M, Sec 3 T21S R27E, 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





QUALITY DOCUMENT

PHOENIX RUBBER INDUSTRIAL LTD.

H-6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152
Phone: (3662) 566-737 • Fax: (3662) 566-738

SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 26
Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.lauruserge.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT N° 890	
PURCHASER: Phoenix Beattie Co.			P.O. N° 1520FA-872		
PHOENIX ORDER N° 172232		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N° 34403		NOMINAL / ACTUAL LENGTH: 11,43 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature					
See attachment. (1 page)					
↑ 10 mm = 10 Min. → 10 mm = 16 MPa					
COUPLINGS					
Type	Serial N°		Quality		Heat N°
3" coupling with 4 1/16" Flange end	1231/a 1228		AISI 4130		80751
			AISI 4130		47438
API Spec 16 C Temperature rate: "B"					
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date: 20. June. 2002.	Inspector		Quality Control PHOENIX RUBBER Industrial Ltd. Hose Inspection and Certification Dept.		

VERIFIED TRUE COPY
PHOENIX RUBBER O.C.



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

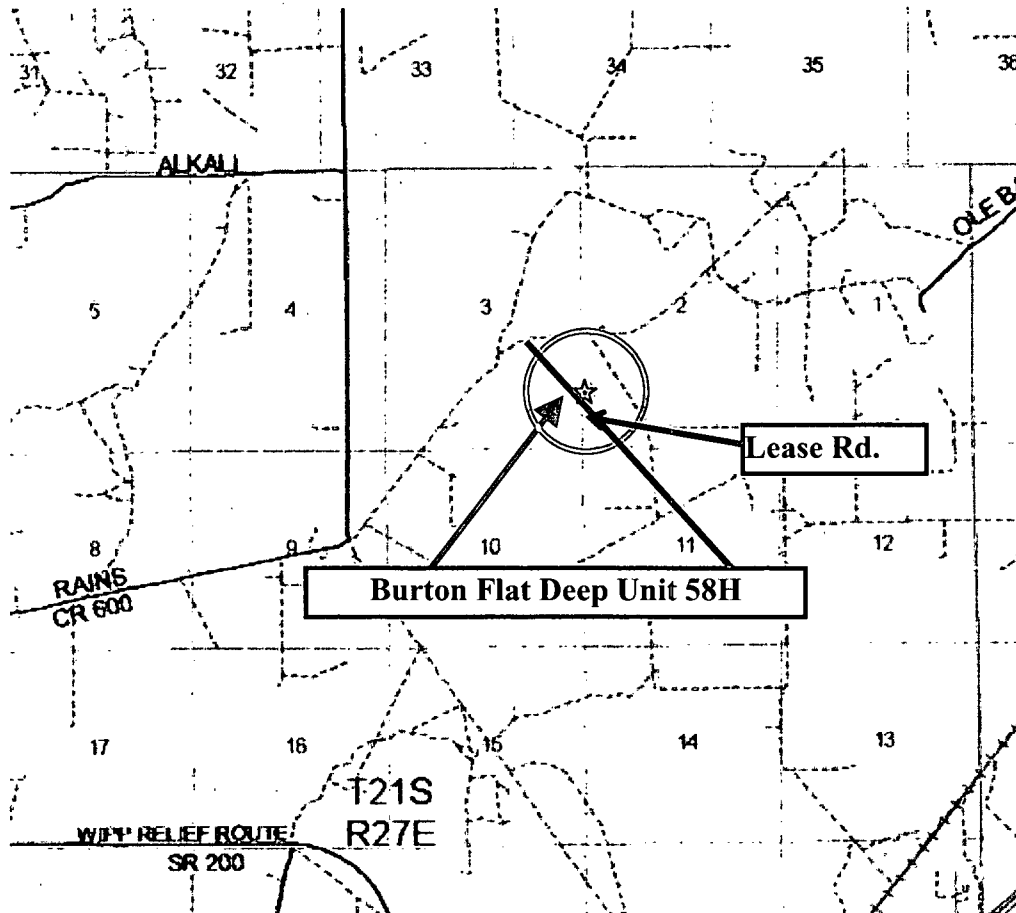
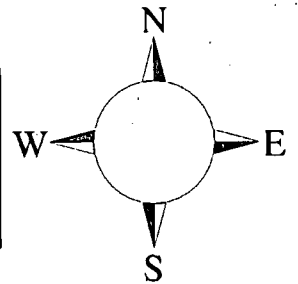
Burton Flat Deep Unit 58H

**Sec-2, T-21S R-27E
1520' FSL & 50' FWL,
LAT. = 32.5061940°N (NAD83)
LONG = 104.1687794°W**

Eddy County NM

Burton Flat Deep Unit 58H

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 ROE = 3000' (Devon Energy Corp.)
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, Northwest or Southeast on lease road. Crews should then block both directions of the 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 County (575)</u>	<u>Hobbs</u>
	State Police
	City Police
	Sheriff's Office
	Ambulance.....
	Fire Department.....
	LEPC (Local Emergency Planning Committee).....
	NMOCD
	US Bureau of Land Management

<u>Eddy County (575)</u>	<u>Carlsbad</u>
	State Police
	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) ..

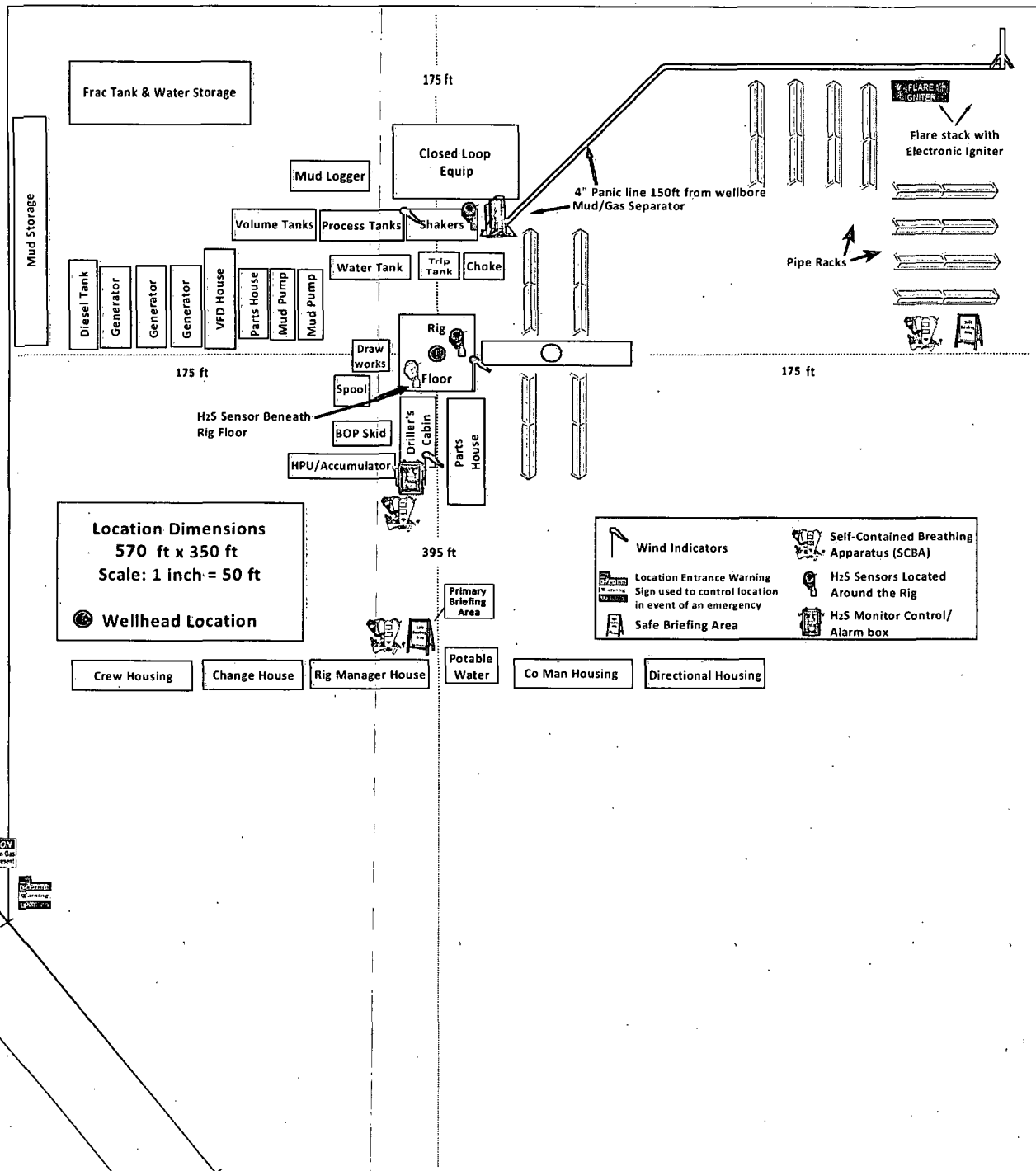
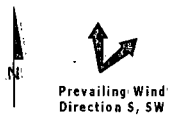
Emergency Services

	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



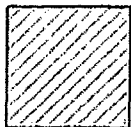
Devon Energy - 4 Well Pad Rig Location Layout Safety Equipment Location



devon

**Proposed Interim
Site Reclamation**

Devon Energy Production Co.
BFDU 58H
718' FSL & 50' FWL
Sec. 2-T21S-R27E
Eddy County, NM

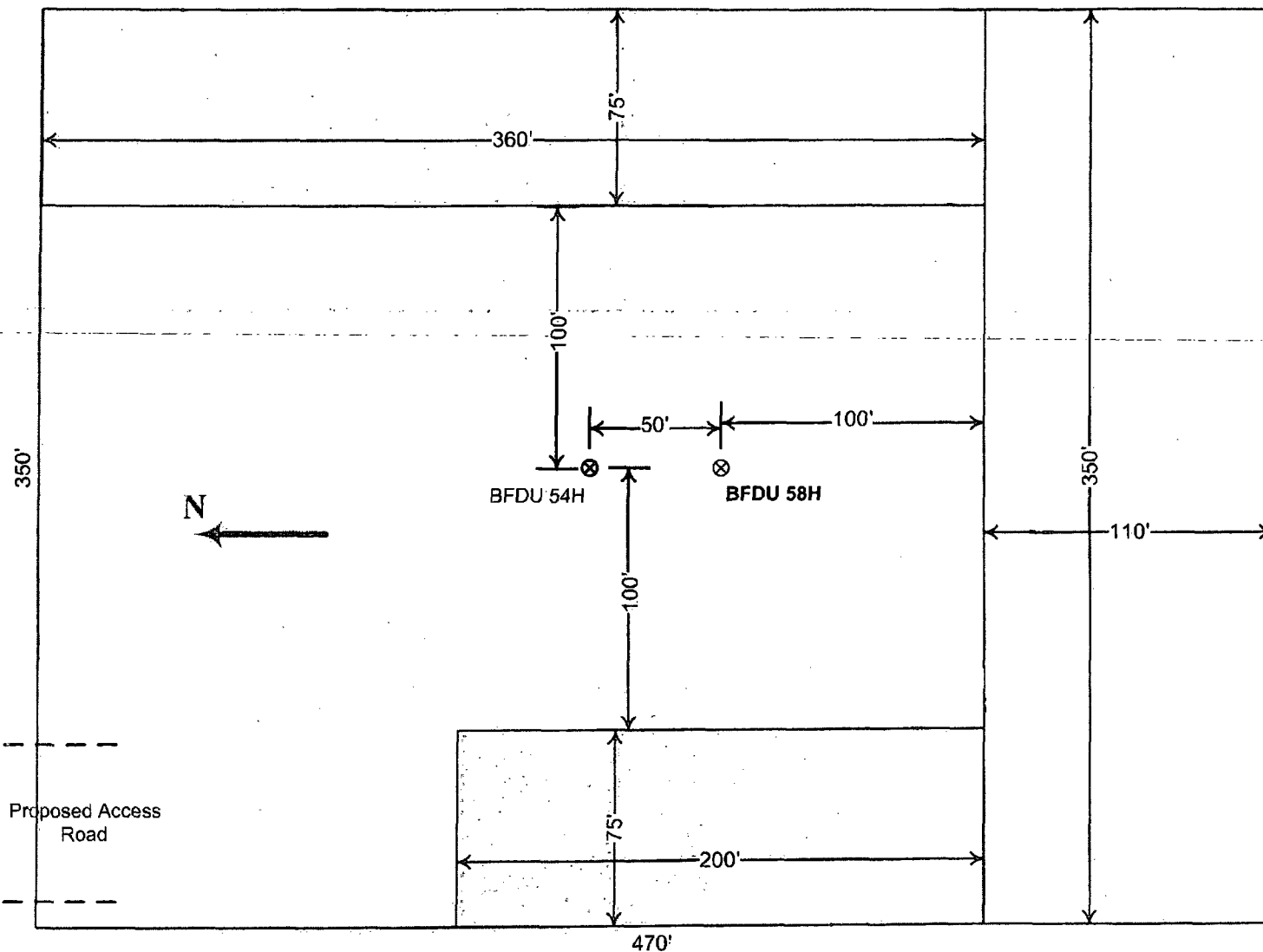


Proposed
Reclamation
Area



Scale: 1 in = 60ft.

Proposed Production Facility at the BFDU 52H/56H well pad in Sec. 3-T21S-R27E



Topsoil stock pile on West edge of location

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY
LEASE NO.:	NM0560289
WELL NAME & NO.:	58H-BURTON FLAT DEEP UNIT
SURFACE HOLE FOOTAGE:	1520' FSL & 50' FWL
BOTTOM HOLE FOOTAGE:	450'/S. & 330'/W. (Sec. 3)
LOCATION:	Section 2, T. 21 S., R. 29 E., NMPM
27	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 of requirement will be checked below.

- ☐ General Provisions
- ☐ Permit Expiration
- ☐ Archaeology, Paleontology, and Historical Sites
- ☐ Noxious Weeds
- ☒ Special Requirements

Commercial well determination

- ☐ Construction
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads

- ☐ Road Section Diagram

- ☒ Drilling
 - High Cave/Karst
 - Logging Requirements
 - Mud logger / casing depth
 - Waste Material and Fluids

- ☐ Production (Post Drilling)
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines

- ☐ Interim Reclamation
- ☐ Final Abandonment & Reclamation