

RECEIVED

Form 3160-3 JUL 23 2012
(February 2005)

NMOCD ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Split Estate

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No 1004-0137
Expires March 31, 20075 Lease Serial No.
SL: L-6322 BHL: NM-0490463

6 If Indian, Allottee, or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone2. Name of Operator
Devon Energy Production Co., LP3a. Address 20 North Broadway
OKC, OK 731023b. Phone No. (include area code)
(405)-552-7802

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

At surface NESE 2310' FSL & 400' FEL Lot I of Sec 28

At proposed prod zone SESE 330' FSL & 460' FEL Lot P of Sec 33

14. Distance in miles and direction from nearest town or post office*
Approximately 14 miles southeast of Loco Hills, NM.12. County or Parish
Eddy13. State
NM15. 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
See Land Plat17. Spacing Unit dedicated to this well
240 acres18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft See Plat19. Proposed Depth
MTVD 6535' MD 13598'20. BLM/BIA Bond No. on file
CO-110421. Elevations (Show whether DF, KDB, RT, GL, etc.)
3221' GL22. Approximate date work will start*
04/15/201223. Estimated duration
45 days

24. Attachments

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

1 Well plat certified by a registered surveyor

2. A Drilling Plan

3 A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO must be filed with the appropriate Forest Service Office)4 Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5 Operator certification

6 Such other site specific information and/or plans as may be required by the
BLM

25. Signature

Name (Printed/Typed)

Date

Stephanie A. Ysasaga

03/09/2012

Title

Sr. Staff Engineering Technician

Approved by (Signature)

Is/ Don Peterson

Name (Printed/Typed)

Is/ Don Peterson

Date

JUL 17 2012

Title

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to
conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 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

*(Instructions on page 2)

Capitan Controlled Water Basin

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

Operators Representative:

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

James Allbee
Operations Engineer Advisor

Don Mayberry
Superintendent

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

Devon Energy Production Company, L.P.
Post Office Box 250
Artesia, NM 88211-0250

(405) 228-8698 (office)
(405) 820-8682 (cell)

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

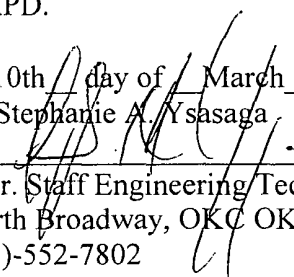
Certification

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

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

Executed this 10th day of March, 2012.

Printed Name: Stephanie A. Ysasaga

Signed Name: 

Position Title: Sr. Staff Engineering Technician

Address: 20 North Broadway, OKC OK 73102

Telephone: (405)-552-7802

Field Representative (if not above signatory): Don Mayberry (see above)

Address (if different from above):

Telephone (if different from above):

E-mail (optional):

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40518	² Pool Code 3713	³ Pool Name Avalon
⁴ Property Code 302209	⁵ Property Name BURTON FLAT DEEP UNIT	
⁶ OGRID No. 6137	⁷ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	
⁸ Well Number 48H		⁹ Elevation 3221.0

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	28	20 S	28 E		2310	SOUTH	400	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	20 S	28 E		330	SOUTH	460	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
240			

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.

NW CORNER SEC. 28 LAT. = 32.5517492°N LONG. = 104.1914581°W NMSP EAST (FT) N = 564486.16 E = 585051.76 SECTION CORNER LAT. = 32.5372081°N LONG. = 104.1916043°W NMSP EAST (FT) N = 559196.05 E = 585013.73 SW CORNER SEC. 33 LAT. = 32.5226879°N LONG. = 104.1915322°W NMSP EAST (FT) N = 553906.37 E = 585042.99	NE CORNER SEC. 28 LAT. = 32.5517890°N LONG. = 104.1741945°W NMSP EAST (FT) N = 564508.14 E = 590370.94 SECTION CORNER LAT. = 32.5372383°N LONG. = 104.1743422°W NMSP EAST (FT) N = 559214.54 E = 590333.33 SE CORNER SEC. 33 LAT. = 32.5226834°N LONG. = 104.1743831°W NMSP EAST (FT) N = 553919.45 E = 590328.62	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. <i>[Signature]</i> 03/05/2012 Signature Date Printed Name STEPHANIE A. YSASAGA
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. FEBRUARY 2, 2012 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number ELI M. R. JR. 12797 SURVEY NO 771		

1ST PERFORATION POINT: 1460' FSL & 460' FEL OF SEC 28

☒ PROJECT AREA☐ PRODUCING AREA

DRILLING PROGRAM

Devon Energy Production Company, LP

Burton Flat Deep Unit 48H

Surface Location: 2310' FSL & 400' FEL, Unit I, Sec 28 T20S R28E, Eddy, NM

Bottom hole Location: 330' FSL & 460' FEL, Unit P, Sec 33 T20S R28E, 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. Rustler Alluvium	50'	Fresh Water
b. Salado	425'	Barren
c. Base Salado	540'	Barren
d. Tansil	625'	Barren
e. Yates	755'	Barren
f. Capitan	1000'	Barren
g. B/Capitan	2755'	Barren
h. Delaware	2910'	Oil
i. Lower Brush Canyon	4970'	Oil
j. Bone Spring Lime	5190'	Oil
k. Avalon Ss Marker	5320'	Oil
l. 1 st Bone Spring Ss	6515'	Oil
m. 2 nd Bone Spring Lime	6695'	Oil
n. Total Depth	MTVD 6535' MD 13598'	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 20" casing @ ~~300'~~ and 13 3/8" casing at 900' and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 2850' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

3. Casing Program:

<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
26"	0' - 300' 225'	20"	0' - 300' 225'	94#	BTC	J/K-55
17 1/2"	300 - 900'	13 3/8"	0' - 900'	68#	BTC	J/K-55
12 1/4"	900' - 2850'	9 5/8"	0' - 2850'	40#	LTC	J-55
8 3/4"	2850' - 5700'	5 1/2"	0' - 5700'	17#	LTC	HCP-110
8 3/4"	5700' - 13598'	5 1/2"	5700' - 13598'	17#	BTC	HCP-110

Max TVD: 6,535'

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
20"	3.7	15.0	32
13 3/8"	1.83	4.11	7.45
9 5/8" 40# J-55 LTC	1.93	2.96	1.97
5 1/2" 17# HCP-110 LTC	1.20	1.71	1.97
5 1/2" 17# HCP-110 BTC	2.66	3.79	4.58

While running the intermediate casing, the casing will never be completely evacuated. There is no potential for the intermediate casing to be used as a production string. All casing strings utilized are new.

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

- a. 20" Surface **Lead:** 335 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water. 13.5 ppg. Yield: 1.75 cf/sk
- Tail:** 300 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water. 14.8 ppg. **TOC @ surface.** 1.35 cf/sk
- b. 13 3/8" Intermediate 1 **Lead:** 485 sacks Class C Cement + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg, 1.75 cf/sk.
- Tail:** 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg, 1.35 cf/sk
TOC @ surface
- c. 9 5/8" Intermediate 2 **Lead:** 800 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 3 lbs/sack LCM-1 + 1% bwoc Metasilicate + 89.7% Fresh Water, 12.6 ppg, 1.73 cf/sk
- Tail:** 300 sacks (60:40)Poz Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 65.5% Water, 13.8 ppg, 1.38 cf/sk
TOC @ surface
- c. 5 1/2" Production **1st Lead:** 590 sacks (50:50) Poz (Fly Ash):Class H Cement + 0.5% bwoc FL-52 + 0.15% bwoc ASA-301 + 10% bwoc Bentonite, 11.8 ppg. Yield: 2.30 cf/sk
- 2nd Lead:** 380 sacks (35:65) Poz (Fly Ash):Class H Cement + 3% bwow Sodium Chloride + 0.125 lbs/sack Cello

Flake + 0.7% bwoc FL-52 + 6% bwoc Bentonite + 105.4% Fresh Water, 12.5 ppg. Yield: 2.0 cf/sk.

Tail: 1875 sacks (50:50) Poz (Fly Ash):Class H Cement + 5% bwoc Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.5% bwoc Sodium Metasilicate + 57.3% Fresh Water, 14.2 ppg. Yield: 1.28 cf/sk. **TOC @ 800'**

TOC for All Strings:

Surface: 0'
Intermediate 1: 0'
Intermediate 2: 0'
Production: 800' (approx. 200' above reef top)

The above cement volumes could be revised pending the caliper measurement from the open hole logs. Actual cement volumes will be adjusted bases on fluid caliper and caliper log data.

5. **Pressure Control Equipment:**

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

The BOP system used to drill the **12-1/4"** and **8-3/4"** holes will consist of a **13-5/8" 3M Triple Ram and Annular preventer**. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a **3M system** prior to drilling out the 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' - 300' ^{225'}	8.4-9.0	30-34	N/C	Fresh Water
300' -900'	9.8-10.2	28-32	N/C	Brine
900'-2850'	8.4-9.0	28-30	N/C	Fresh Water
2850'-13598'	8.6-9.0	28-30	N/C-12	Fresh Water

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

7. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 20" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 20" shoe until total depth is reached.

8. Logging, Coring, and Testing Program: See COA

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. Possible lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3600 psi and Estimated BHT 110°. No H₂S is anticipated to be encountered.

10. Anticipated Starting Date and Duration of Operations:

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

Devon Energy Corporation

Eddy County, NM (NAD 83)

Burton Flat Deep Unit

Burton Flat Deep Unit 48H

Wellbore #1

Plan: Plan #2

Sperry Drilling Services Proposal Report

08 March, 2012

Well Coordinates. 561,522 67 N, 589,949 62 E (32° 32' 36 90" N, 104° 10' 32.07" W)
Ground Level. 3,221 00 ft

Local Coordinate Origin	Centered on Well Burton Flat Deep Unit 48H
Viewing Datum	GL 3221' + KB 25' @ 3246 00ft (H&P 223)
TVDs to System	N
North Reference	Gnd
Unit System	API - US Survey Feet

Version 2003 16 Build 431

HALLIBURTON

Plan Report for Burton Flat Deep Unit 48H - Plan #2

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	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	0.00
200.00	0.00	0.00	200.00	0.00	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	0.00
400.00	0.00	0.00	400.00	0.00	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	0.00
600.00	0.00	0.00	600.00	0.00	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	0.00
800.00	0.00	0.00	800.00	0.00	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	0.00
1,000.00	0.00	0.00	1,000.00	0.00	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	0.00
1,200.00	0.00	0.00	1,200.00	0.00	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	0.00
1,400.00	0.00	0.00	1,400.00	0.00	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	0.00
1,600.00	0.00	0.00	1,600.00	0.00	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	0.00
1,800.00	0.00	0.00	1,800.00	0.00	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	0.00
2,000.00	0.00	0.00	2,000.00	0.00	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	0.00
2,200.00	0.00	0.00	2,200.00	0.00	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	0.00
2,400.00	0.00	0.00	2,400.00	0.00	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	0.00
2,600.00	0.00	0.00	2,600.00	0.00	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	0.00
2,800.00	0.00	0.00	2,800.00	0.00	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	0.00
3,000.00	0.00	0.00	3,000.00	0.00	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	0.00
3,200.00	0.00	0.00	3,200.00	0.00	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	0.00
3,400.00	0.00	0.00	3,400.00	0.00	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	0.00
3,600.00	0.00	0.00	3,600.00	0.00	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	0.00
3,800.00	0.00	0.00	3,800.00	0.00	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	0.00
4,000.00	0.00	0.00	4,000.00	0.00	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	0.00
4,200.00	0.00	0.00	4,200.00	0.00	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	0.00
4,400.00	0.00	0.00	4,400.00	0.00	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	0.00
4,600.00	0.00	0.00	4,600.00	0.00	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	0.00
4,800.00	0.00	0.00	4,800.00	0.00	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	0.00
5,000.00	0.00	0.00	5,000.00	0.00	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	0.00
5,200.00	0.00	0.00	5,200.00	0.00	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	0.00
5,400.00	0.00	0.00	5,400.00	0.00	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	0.00
5,600.00	0.00	0.00	5,600.00	0.00	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	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Plan Report for Burton Flat Deep Unit 48H - Plan #2

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,997.09	0.00	0.00	5,997.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP/Start Build @ 5997.09' MD - Build Rate = 10.00°/100'										
6,000.00	0.29	180.63	6,000.00	-0.01	0.00	0.01	10.01	10.01	0.00	180.63
6,050.00	5.29	180.63	6,049.92	-2.44	-0.03	2.44	10.00	10.00	0.00	0.00
6,100.00	10.29	180.63	6,099.45	-9.22	-0.10	9.22	10.00	10.00	0.00	0.00
6,150.00	15.29	180.63	6,148.19	-20.28	-0.22	20.28	10.00	10.00	0.00	0.00
6,200.00	20.29	180.63	6,195.78	-35.55	-0.39	35.56	10.00	10.00	0.00	0.00
6,250.00	25.29	180.63	6,241.87	-54.92	-0.61	54.92	10.00	10.00	0.00	0.00
6,300.00	30.29	180.63	6,286.08	-78.22	-0.87	78.22	10.00	10.00	0.00	0.00
6,350.00	35.29	180.63	6,328.10	-105.29	-1.17	105.30	10.00	10.00	0.00	0.00
6,400.00	40.29	180.63	6,367.60	-135.92	-1.51	135.92	10.00	10.00	0.00	0.00
6,450.00	45.29	180.63	6,404.28	-169.87	-1.88	169.88	10.00	10.00	0.00	0.00
6,500.00	50.29	180.63	6,437.86	-206.89	-2.29	206.90	10.00	10.00	0.00	0.00
6,550.00	55.29	180.63	6,468.09	-246.70	-2.73	246.71	10.00	10.00	0.00	0.00
6,600.00	60.29	180.63	6,494.73	-288.99	-3.20	289.01	10.00	10.00	0.00	0.00
6,650.00	65.29	180.63	6,517.59	-333.44	-3.69	333.46	10.00	10.00	0.00	0.00
6,700.00	70.29	180.63	6,536.48	-379.71	-4.21	379.73	10.00	10.00	0.00	0.00
6,750.00	75.29	180.63	6,551.27	-427.45	-4.74	427.48	10.00	10.00	0.00	0.00
6,800.00	80.29	180.63	6,561.84	-476.31	-5.28	476.33	10.00	10.00	0.00	0.00
6,850.00	85.29	180.63	6,568.11	-525.89	-5.83	525.92	10.00	10.00	0.00	0.00
6,899.39	90.23	180.63	6,570.04	-575.22	-6.37	575.26	10.00	10.00	0.00	0.00
Target Line										
6,904.36	90.73	180.63	6,570.00	-580.20	-6.43	580.23	10.00	10.00	0.00	0.00
End Build @ 6904.36' MD - Hold Angle = 90.73°										
7,000.00	90.73	180.63	6,568.78	-675.82	-7.49	675.86	0.00	0.00	0.00	0.00
7,100.00	90.73	180.63	6,567.51	-775.81	-8.60	775.85	0.00	0.00	0.00	0.00
7,200.00	90.73	180.63	6,566.25	-875.79	-9.70	875.85	0.00	0.00	0.00	0.00
7,300.00	90.73	180.63	6,564.98	-975.78	-10.81	975.84	0.00	0.00	0.00	0.00
7,400.00	90.73	180.63	6,563.71	-1,075.76	-11.92	1,075.83	0.00	0.00	0.00	0.00
7,500.00	90.73	180.63	6,562.44	-1,175.75	-13.03	1,175.82	0.00	0.00	0.00	0.00
7,600.00	90.73	180.63	6,561.17	-1,275.74	-14.13	1,275.81	0.00	0.00	0.00	0.00
7,700.00	90.73	180.63	6,559.90	-1,375.72	-15.24	1,375.81	0.00	0.00	0.00	0.00
7,800.00	90.73	180.63	6,558.63	-1,475.71	-16.35	1,475.80	0.00	0.00	0.00	0.00
7,900.00	90.73	180.63	6,557.36	-1,575.69	-17.46	1,575.79	0.00	0.00	0.00	0.00
8,000.00	90.73	180.63	6,556.09	-1,675.68	-18.57	1,675.78	0.00	0.00	0.00	0.00
8,100.00	90.73	180.63	6,554.82	-1,775.67	-19.67	1,775.77	0.00	0.00	0.00	0.00
8,200.00	90.73	180.63	6,553.55	-1,875.65	-20.78	1,875.77	0.00	0.00	0.00	0.00
8,300.00	90.73	180.63	6,552.28	-1,975.64	-21.89	1,975.76	0.00	0.00	0.00	0.00
8,400.00	90.73	180.63	6,551.01	-2,075.62	-23.00	2,075.75	0.00	0.00	0.00	0.00
8,500.00	90.73	180.63	6,549.74	-2,175.61	-24.11	2,175.74	0.00	0.00	0.00	0.00
8,600.00	90.73	180.63	6,548.47	-2,275.59	-25.21	2,275.73	0.00	0.00	0.00	0.00
8,700.00	90.73	180.63	6,547.20	-2,375.58	-26.32	2,375.73	0.00	0.00	0.00	0.00
8,800.00	90.73	180.63	6,545.93	-2,475.57	-27.43	2,475.72	0.00	0.00	0.00	0.00
8,900.00	90.73	180.63	6,544.66	-2,575.55	-28.54	2,575.71	0.00	0.00	0.00	0.00
9,000.00	90.73	180.63	6,543.39	-2,675.54	-29.64	2,675.70	0.00	0.00	0.00	0.00
9,100.00	90.73	180.63	6,542.12	-2,775.52	-30.75	2,775.69	0.00	0.00	0.00	0.00
9,200.00	90.73	180.63	6,540.85	-2,875.51	-31.86	2,875.69	0.00	0.00	0.00	0.00
9,300.00	90.73	180.63	6,539.58	-2,975.49	-32.97	2,975.68	0.00	0.00	0.00	0.00
9,400.00	90.73	180.63	6,538.31	-3,075.48	-34.08	3,075.67	0.00	0.00	0.00	0.00
9,500.00	90.73	180.63	6,537.04	-3,175.47	-35.18	3,175.66	0.00	0.00	0.00	0.00
9,600.00	90.73	180.63	6,535.77	-3,275.45	-36.29	3,275.65	0.00	0.00	0.00	0.00
9,700.00	90.73	180.63	6,534.50	-3,375.44	-37.40	3,375.65	0.00	0.00	0.00	0.00
9,800.00	90.73	180.63	6,533.23	-3,475.42	-38.51	3,475.64	0.00	0.00	0.00	0.00
9,900.00	90.73	180.63	6,531.96	-3,575.41	-39.61	3,575.63	0.00	0.00	0.00	0.00
10,000.00	90.73	180.63	6,530.69	-3,675.40	-40.72	3,675.62	0.00	0.00	0.00	0.00
10,100.00	90.73	180.63	6,529.42	-3,775.38	-41.83	3,775.61	0.00	0.00	0.00	0.00
10,200.00	90.73	180.63	6,528.15	-3,875.37	-42.94	3,875.60	0.00	0.00	0.00	0.00
10,300.00	90.73	180.63	6,526.88	-3,975.35	-44.05	3,975.60	0.00	0.00	0.00	0.00

Plan Report for Burton Flat Deep Unit 48H - Plan #2

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
10,400.00	90 73	180 63	6,525 61	-4,075 34	-45 15	4,075 59	0 00	0 00	0 00	0 00
10,500 00	90 73	180 63	6,524 35	-4,175 32	-46 26	4,175 58	0 00	0 00	0 00	0 00
10,600 00	90 73	180 63	6,523 08	-4,275 31	-47 37	4,275 57	0 00	0 00	0 00	0 00
10,700 00	90 73	180 63	6,521 81	-4,375 30	-48 48	4,375 56	0 00	0 00	0 00	0 00
10,800 00	90 73	180 63	6,520 54	-4,475 28	-49 58	4,475 56	0 00	0 00	0 00	0 00
10,900.00	90 73	180 63	6,519 27	-4,575 27	-50 69	4,575 55	0 00	0 00	0 00	0 00
11,000 00	90 73	180 63	6,518 00	-4,675 25	-51 80	4,675 54	0 00	0 00	0 00	0 00
11,100 00	90 73	180 63	6,516 73	-4,775 24	-52 91	4,775 53	0 00	0 00	0 00	0 00
11,200 00	90 73	180 63	6,515 46	-4,875 22	-54 02	4,875 52	0 00	0 00	0 00	0 00
11,300 00	90 73	180 63	6,514 19	-4,975 21	-55 12	4,975 52	0 00	0 00	0 00	0 00
11,400 00	90 73	180 63	6,512 92	-5,075 20	-56 23	5,075 51	0 00	0 00	0 00	0 00
11,500 00	90 73	180 63	6,511 65	-5,175 18	-57 34	5,175 50	0 00	0 00	0 00	0 00
11,600 00	90 73	180 63	6,510 38	-5,275 17	-58 45	5,275 49	0 00	0 00	0 00	0 00
11,700 00	90 73	180 63	6,509 11	-5,375 15	-59 55	5,375 48	0 00	0 00	0 00	0 00
11,800.00	90 73	180 63	6,507 84	-5,475 14	-60 66	5,475 48	0 00	0 00	0 00	0 00
11,900 00	90 73	180 63	6,506 57	-5,575 13	-61 77	5,575 47	0 00	0 00	0 00	0 00
12,000 00	90 73	180 63	6,505 30	-5,675 11	-62 88	5,675 46	0 00	0 00	0 00	0 00
12,100 00	90 73	180 63	6,504 03	-5,775 10	-63 99	5,775 45	0 00	0 00	0 00	0 00
12,200 00	90 73	180 63	6,502 76	-5,875 08	-65 09	5,875 44	0 00	0 00	0 00	0 00
12,300 00	90 73	180 63	6,501 49	-5,975 07	-66 20	5,975 44	0 00	0 00	0 00	0 00
12,400 00	90 73	180 63	6,500 22	-6,075 05	-67 31	6,075 43	0 00	0 00	0 00	0 00
12,500 00	90 73	180 63	6,498 95	-6,175 04	-68 42	6,175 42	0 00	0 00	0 00	0 00
12,600 00	90 73	180 63	6,497 68	-6,275 03	-69 53	6,275 41	0 00	0 00	0 00	0 00
12,700 00	90 73	180 63	6,496 41	-6,375 01	-70 63	6,375 40	0 00	0 00	0 00	0 00
12,800 00	90 73	180 63	6,495 14	-6,475 00	-71 74	6,475 40	0 00	0 00	0 00	0 00
12,900 00	90 73	180 63	6,493 87	-6,574 98	-72 85	6,575 39	0 00	0 00	0 00	0 00
13,000 00	90 73	180 63	6,492 60	-6,674 97	-73 96	6,675 38	0 00	0 00	0 00	0 00
13,100.00	90 73	180 63	6,491 33	-6,774 96	-75 06	6,775 37	0 00	0 00	0 00	0 00
13,200 00	90 73	180 63	6,490 06	-6,874 94	-76 17	6,875 36	0 00	0 00	0 00	0 00
13,300 00	90 73	180 63	6,488 79	-6,974 93	-77 28	6,975 35	0 00	0 00	0 00	0 00
13,400.00	90 73	180 63	6,487 52	-7,074 91	-78 39	7,075 35	0 00	0 00	0 00	0 00
13,500 00	90 73	180 63	6,486 25	-7,174 90	-79 50	7,175 34	0 00	0 00	0 00	0 00
13,598 80	90 73	180 63	6,485 00	-7,273 68	-80 59	7,274 13	0 00	0 00	0 00	0 00

TD @ 13598.80' MD - Burton Flat Deep Unit 48H / BHL

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
5,997 09	5,997 09	0 00	0 00	KOP/Start Build @ 5997 09' MD
5,997 09	5,997 09	0 00	0 00	Build Rate = 10 00°/100'
6,904 36	6,570 00	-580 19	-6 43	End Build @ 6904 36' MD
6,904 36	6,570 00	-580 20	-6 43	Hold Angle = 90 73°
13,598 80	6,485 00	-7,273 68	-80 59	TD @ 13598 80' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	+N_S (ft)	+E-W (ft)	Start TVD (ft)
TD	No Target (Freehand)	180 63	Slot	0 00	0 00	0 00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0 00	13,598.80	Plan #2	MWD

Plan Report for Burton Flat Deep Unit 48H - Plan #2

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,899.39	6,577.37	Target Line		-0.73	180.63

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
Burton Flat Deep Unit 48H / BHL	6,485.00	-7,273.68	-80.59	Point

HALLIBURTON

North Reference Sheet for Burton Flat Deep Unit - Burton Flat Deep Unit 48H - Wellbore #1

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

Vertical Depths are relative to GL 3221' + KB 25' @ 3246 00ft (H&P 223). Northing and Easting are relative to Burton Flat Deep Unit 48H.

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: 0.99991180.

Gnd Coordinates of Well: 561,522 67 ft N, 589,949 62 ft E.

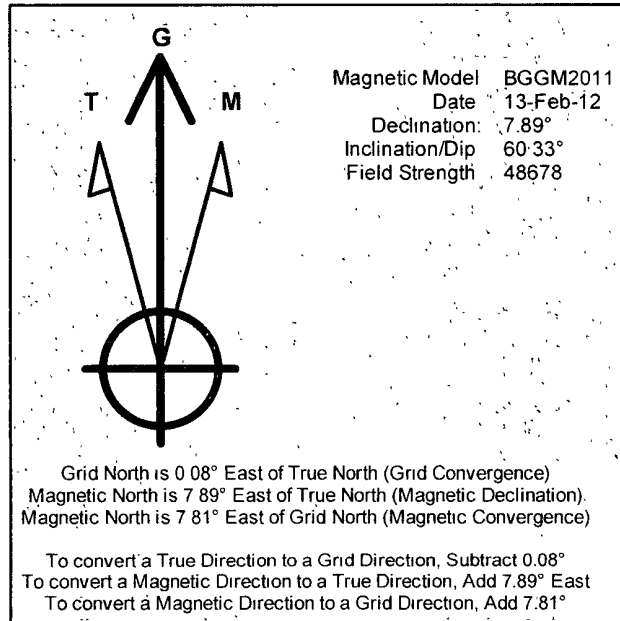
Geographical Coordinates of Well: 32° 32' 36 90" N, 104° 10' 32 07" W.

Gnd Convergence at Surface is 0.08°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 13,598 80ft.

the Bottom Hole Displacement is 7,274 13ft in the Direction of 180 63° (Grid).

Magnetic Convergence at surface is -7.81° (13 February 2012, BGGM2011).



Project: Eddy County, NM (NAD 83)
Site: Burton Flat Deep Unit
Well: Burton Flat Deep Unit 48H
Wellbore: Wellbore #1
Plan: Plan #2
Rig: H&P 223

SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 3221' + KB 25' @ 3246.00ft (H&P 223)
 Northing 561522.67 Easting 589949.62 32° 32' 36.904 N 104° 10' 32.075 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5997.09	0.00	0.00	5997.09	0.00	0.00	0.00	0.00	0.00	KOP/Start Build
6904.36	90.73	180.63	6570.00	-580.20	-6.43	10.00	180.63	580.23	End Build
13598.80	90.73	180.63	6485.00	-7273.68	-80.59	0.00	0.00	7274.13	TD

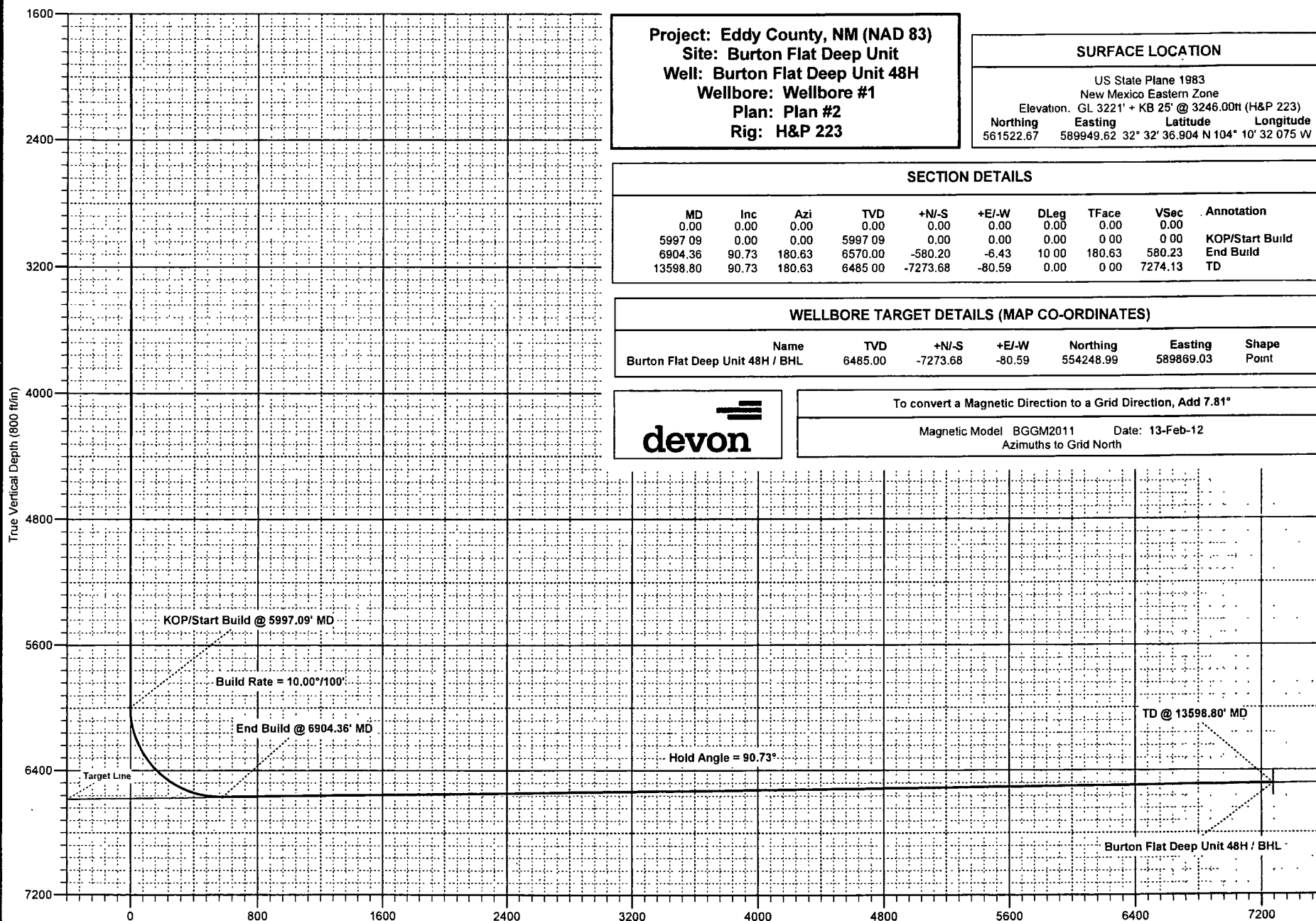
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Burton Flat Deep Unit 48H / BHL	6485.00	-7273.68	-80.59	554248.99	589869.03	Point



To convert a Magnetic Direction to a Grid Direction, Add 7.81°

Magnetic Model BGGM2011 Date: 13-Feb-12
 Azimuths to Grid North



Vertical Section at 180.63° (800 ft/in)

Created By Gustavo Moya Date 15 26, March 08 2012

Project: Eddy County, NM (NAD 83)
Site: Burton Flat Deep Unit
Well: Burton Flat Deep Unit 48H
Wellbore: Wellbore #1
Plan: Plan #2
Rig: H&P 223

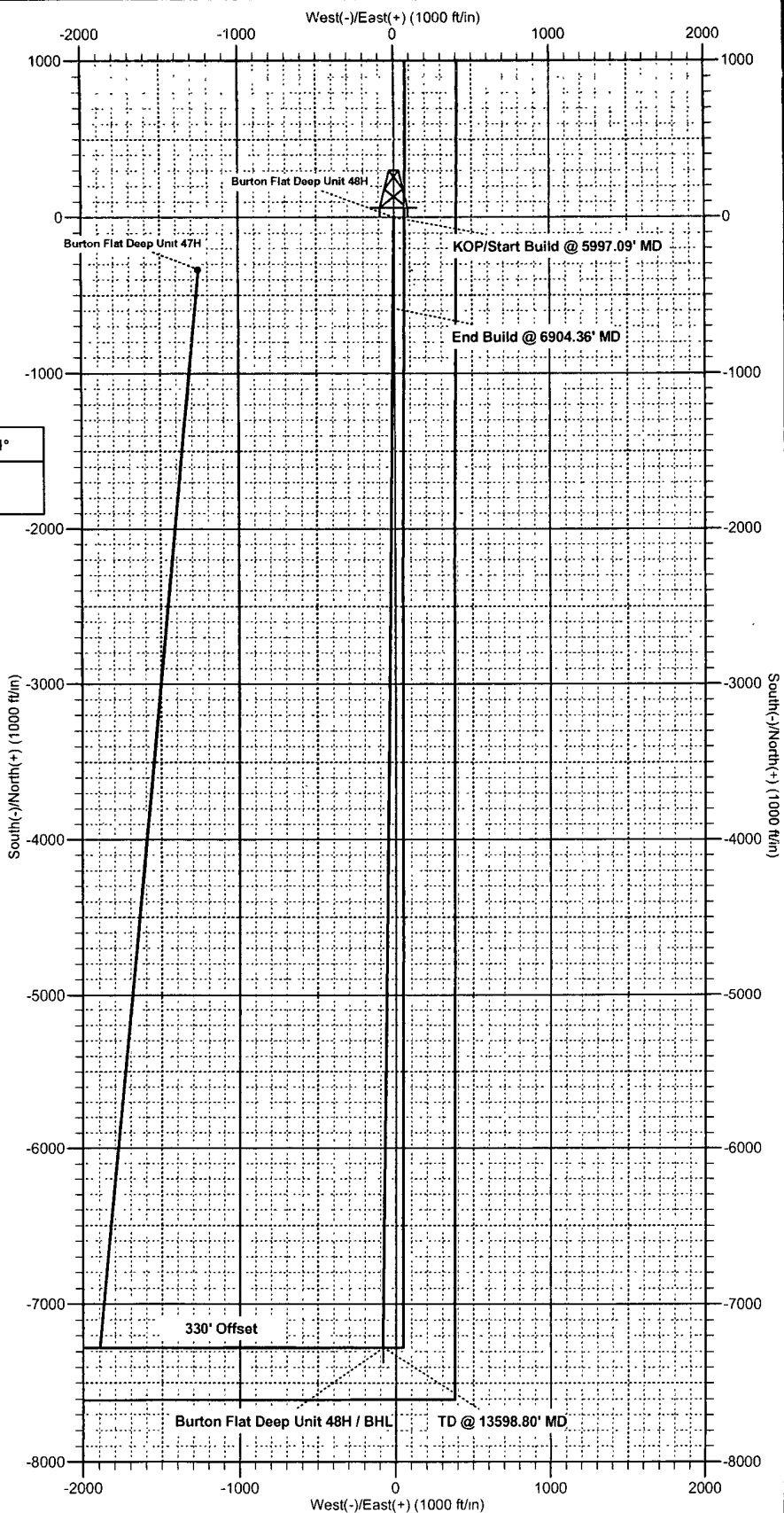
SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation GL 3221' + KB 25' @ 3246 00ft (H&P 223)

Northing	Easting	Latitude	Longitude
561522 67	589949 62	32° 32' 36 904 N	104° 10' 32 075 W

To convert a Magnetic Direction to a Grid Direction, Add 7.81°

Magnetic Model: BGGM2011 Date 13-Feb-12
 Azimuths to Grid North



Standard Survey

Company: Devon Energy Corporation
Project: Eddy County
Site: Burton Flat Deep Unit
Well: Burton Flat Deep Unit 48H
Wellbore: Wellbore #1
Design/Survey: Plan #2
North Reference Grid

MD ft	Inc °	Azi (Grid) °	TVDSS ft	TVD ft	N/S ft	E/W ft	Northings ft	Eastings ft	DLS %/100ft	V.Sec ft
0.00	0.00	0.00	-3246.00	0.00	0.00	0.00	561522.67	589949.62	0.00	0.00
100.00	0.00	0.00	-3146.00	100.00	0.00	0.00	561522.67	589949.62	0.00	0.00
200.00	0.00	0.00	-3046.00	200.00	0.00	0.00	561522.67	589949.62	0.00	0.00
300.00	0.00	0.00	-2946.00	300.00	0.00	0.00	561522.67	589949.62	0.00	0.00
400.00	0.00	0.00	-2846.00	400.00	0.00	0.00	561522.67	589949.62	0.00	0.00
500.00	0.00	0.00	-2746.00	500.00	0.00	0.00	561522.67	589949.62	0.00	0.00
600.00	0.00	0.00	-2646.00	600.00	0.00	0.00	561522.67	589949.62	0.00	0.00
700.00	0.00	0.00	-2546.00	700.00	0.00	0.00	561522.67	589949.62	0.00	0.00
800.00	0.00	0.00	-2446.00	800.00	0.00	0.00	561522.67	589949.62	0.00	0.00
900.00	0.00	0.00	-2346.00	900.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1000.00	0.00	0.00	-2246.00	1000.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1100.00	0.00	0.00	-2146.00	1100.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1200.00	0.00	0.00	-2046.00	1200.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1300.00	0.00	0.00	-1946.00	1300.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1400.00	0.00	0.00	-1846.00	1400.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1500.00	0.00	0.00	-1746.00	1500.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1600.00	0.00	0.00	-1646.00	1600.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1700.00	0.00	0.00	-1546.00	1700.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1800.00	0.00	0.00	-1446.00	1800.00	0.00	0.00	561522.67	589949.62	0.00	0.00
1900.00	0.00	0.00	-1346.00	1900.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2000.00	0.00	0.00	-1246.00	2000.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2100.00	0.00	0.00	-1146.00	2100.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2200.00	0.00	0.00	-1046.00	2200.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2300.00	0.00	0.00	-946.00	2300.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2400.00	0.00	0.00	-846.00	2400.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2500.00	0.00	0.00	-746.00	2500.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2600.00	0.00	0.00	-646.00	2600.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2700.00	0.00	0.00	-546.00	2700.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2800.00	0.00	0.00	-446.00	2800.00	0.00	0.00	561522.67	589949.62	0.00	0.00
2900.00	0.00	0.00	-346.00	2900.00	0.00	0.00	561522.67	589949.62	0.00	0.00
3000.00	0.00	0.00	-246.00	3000.00	0.00	0.00	561522.67	589949.62	0.00	0.00
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3600.00	0.00	0.00	354.00	3600.00	0.00	0.00	561522.67	589949.62	0.00	0.00
3700.00	0.00	0.00	454.00	3700.00	0.00	0.00	561522.67	589949.62	0.00	0.00
3800.00	0.00	0.00	554.00	3800.00	0.00	0.00	561522.67	589949.62	0.00	0.00
3900.00	0.00	0.00	654.00	3900.00	0.00	0.00	561522.67	589949.62	0.00	0.00
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4200.00	0.00	0.00	954.00	4200.00	0.00	0.00	561522.67	589949.62	0.00	0.00
4300.00	0.00	0.00	1054.00	4300.00	0.00	0.00	561522.67	589949.62	0.00	0.00
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4600.00	0.00	0.00	1354.00	4600.00	0.00	0.00	561522.67	589949.62	0.00	0.00
4700.00	0.00	0.00	1454.00	4700.00	0.00	0.00	561522.67	589949.62	0.00	0.00
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5400.00	0.00	0.00	2154.00	5400.00	0.00	0.00	561522.67	589949.62	0.00	0.00
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5800.00	0.00	0.00	2554.00	5800.00	0.00	0.00	561522.67	589949.62	0.00	0.00
5900.00	0.00	0.00	2654.00	5900.00	0.00	0.00	561522.67	589949.62	0.00	0.00

5997 09	0.00	0 00	2751 09	5997 09	0 00	0.00	561522.67	589949 62	0 00	0 00
6000.00	0 29	180.63	2754 00	6000 00	-0.01	0 00	561522 66	589949 62	10 00	0 01
6050 00	5.29	180.63	2803 92	6049 92	-2 44	-0 03	561520 23	589949.59	10 00	2 44
6100 00	10 29	180 63	2853 45	6099 45	-9 22	-0.10	561513 45	589949 52	10 00	9 22
6150 00	15.29	180 63	2902 19	6148.19	-20.28	-0.22	561502 39	589949.40	10 00	20.28
6200 00	20 29	180.63	2949.78	6195.78	-35 55	-0.39	561487.12	589949.23	10.00	35.56
6250.00	25 29	180 63	2995.87	6241.87	-54.92	-0.61	561467.75	589949.01	10.00	54 92
6300 00	30 29	180.63	3040 08	6286 08	-78.22	-0.87	561444.45	589948.75	10 00	78 22
6350 00	35.29	180 63	3082 10	6328 10	-105 29	-1.17	561417.38	589948.45	10 00	105 30
6400 00	40.29	180 63	3121.60	6367.60	-135.92	-1.51	561386 75	589948 11	10 00	135.92
6450.00	45.29	180.63	3158.28	6404 28	-169.87	-1 88	561352 80	589947 74	10.00	169.88
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6700.00	70.29	180.63	3290.48	6536 48	-379 71	-4.21	561142.96	589945 41	10 00	379.73
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7500.00	90 73	180 63	3316.44	6562 44	-1175.75	-13.03	560346 92	589936.59	0 00	1175 82
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8000 00	90 73	180.63	3310.09	6556.09	-1675 68	-18.57	559846.99	589931.05	0.00	1675.78
8100.00	90 73	180.63	3308 82	6554.82	-1775.67	-19 67	559747.01	589929.95	0.00	1775 77
8200.00	90.73	180.63	3307.55	6553.55	-1875.65	-20.78	559647 02	589928 84	0 00	1875 77
8300 00	90 73	180.63	3306 28	6552 28	-1975 64	-21 89	559547 03	589927 73	0 00	1975 76
8400.00	90.73	180 63	3305.01	6551 01	-2075.62	-23 00	559447 05	589926 62	0 00	2075 75
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8800 00	90.73	180 63	3299 93	6545.93	-2475.57	-27 43	559047.10	589922 19	0 00	2475.72
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10600 00	90 73	180.63	3277.08	6523 08	-4275.31	-47 37	557247 36	589902.25	0.00	4275.57
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10800 00	90 73	180 63	3274.54	6520 54	-4475 28	-49.58	557047.39	589900.04	0.00	4475 56
10900 00	90 73	180 63	3273.27	6519 27	-4575 27	-50.69	556947 40	589898 93	0.00	4575 55
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12300 00	90 73	180.63	3255.49	6501 49	-5975.07	-66 20	555547 60	589883 42	0.00	5975.44
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Attachment to Exhibit #1
NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP

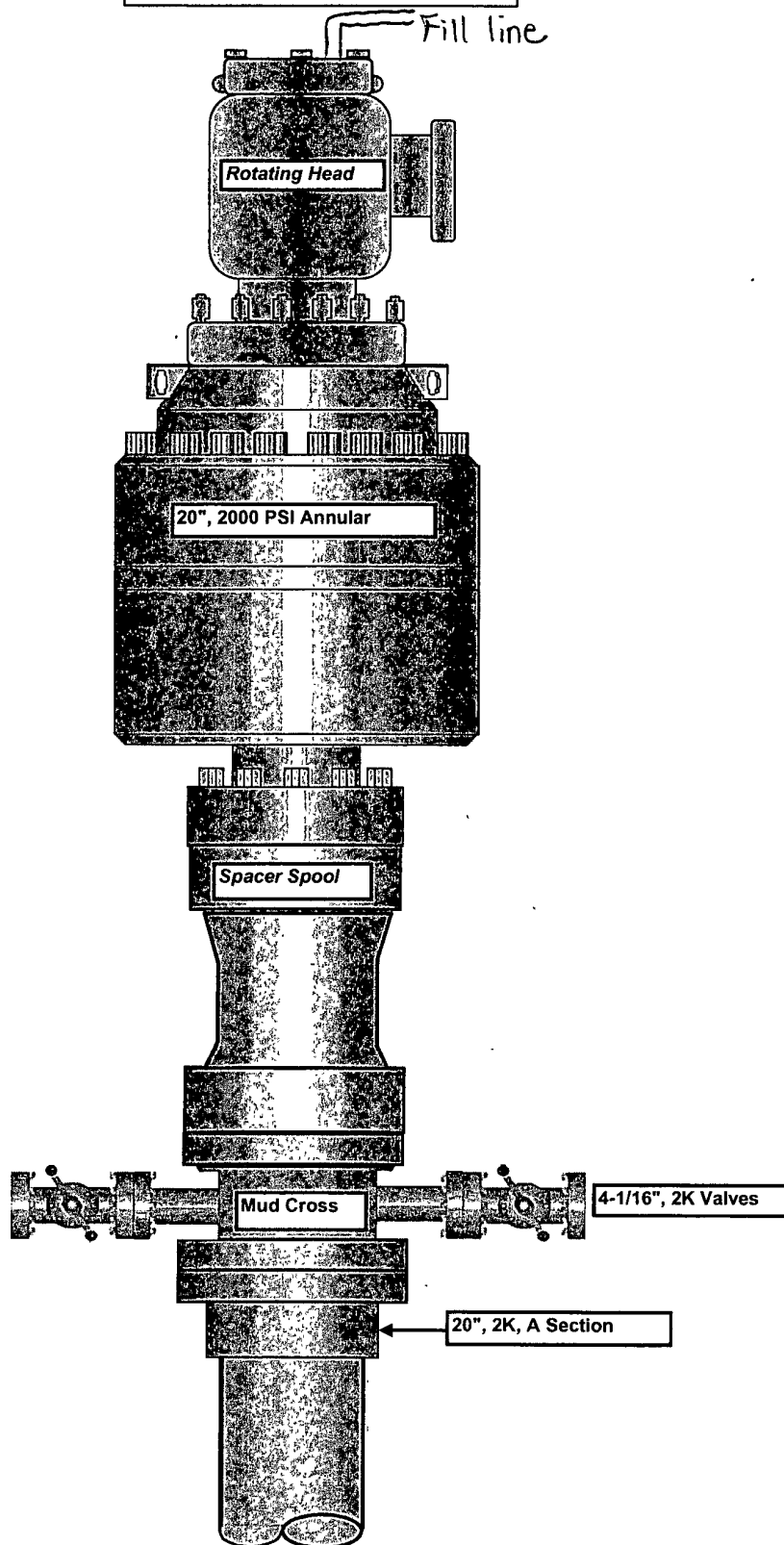
Burton Flat Deep Unit 48H

Surface Location: 2310' FSL & 400' FEL, Unit I, Sec 28 T20S R28E, Eddy, NM

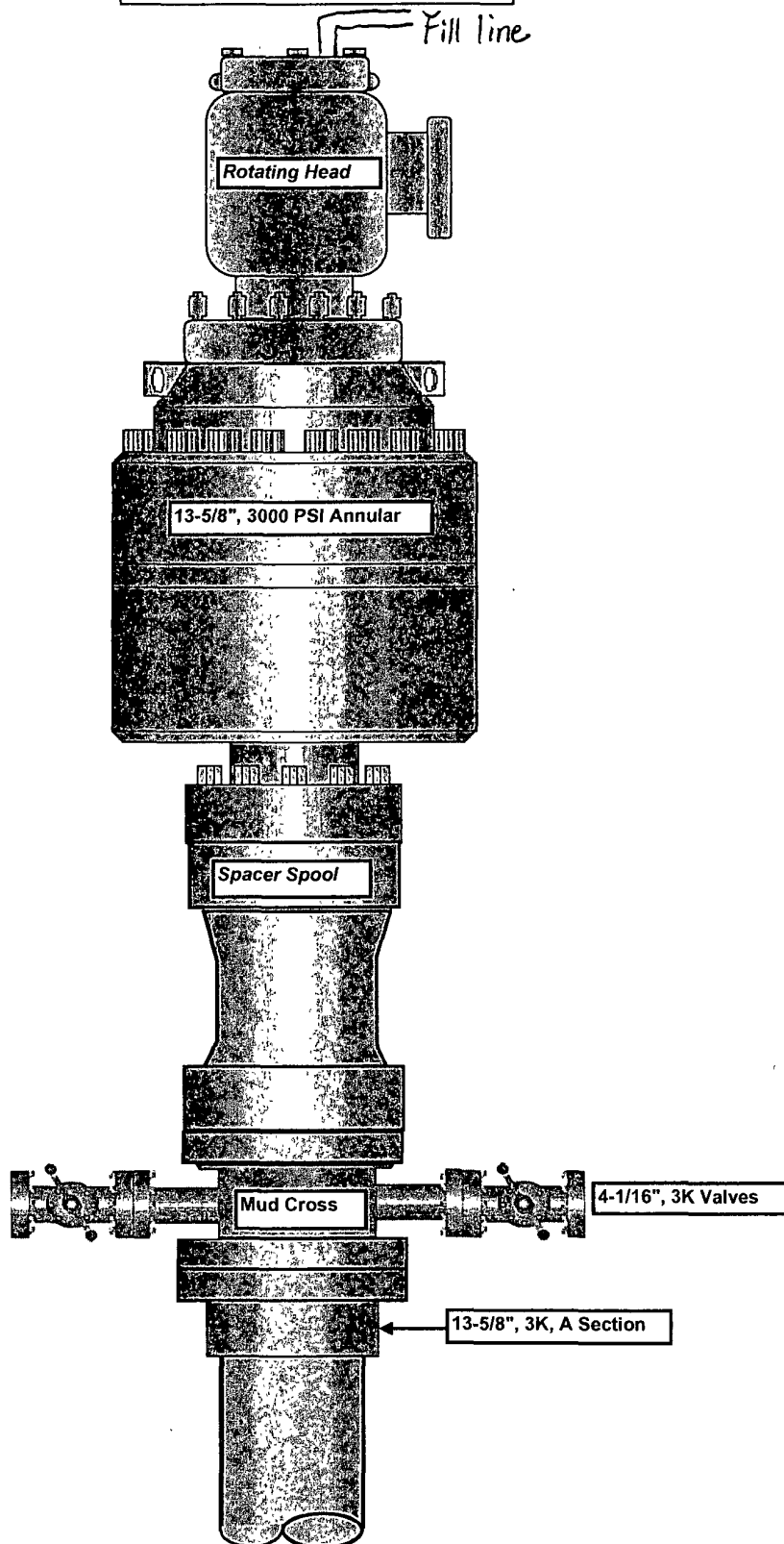
Bottom hole Location: 330' FSL & 460' FEL, Unit P, Sec 33 T20S R28E, Eddy, NM

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.

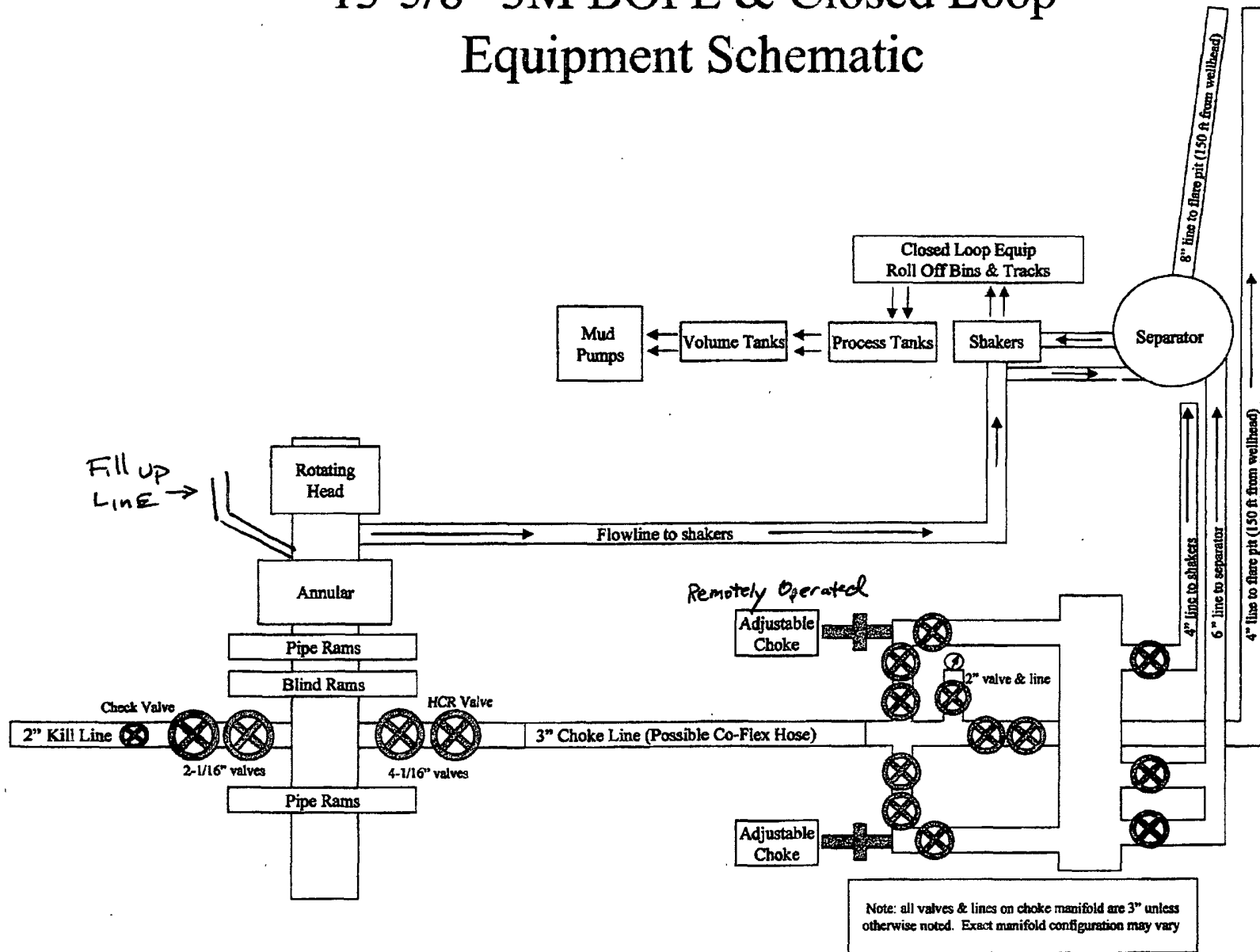
20" 2K Annular



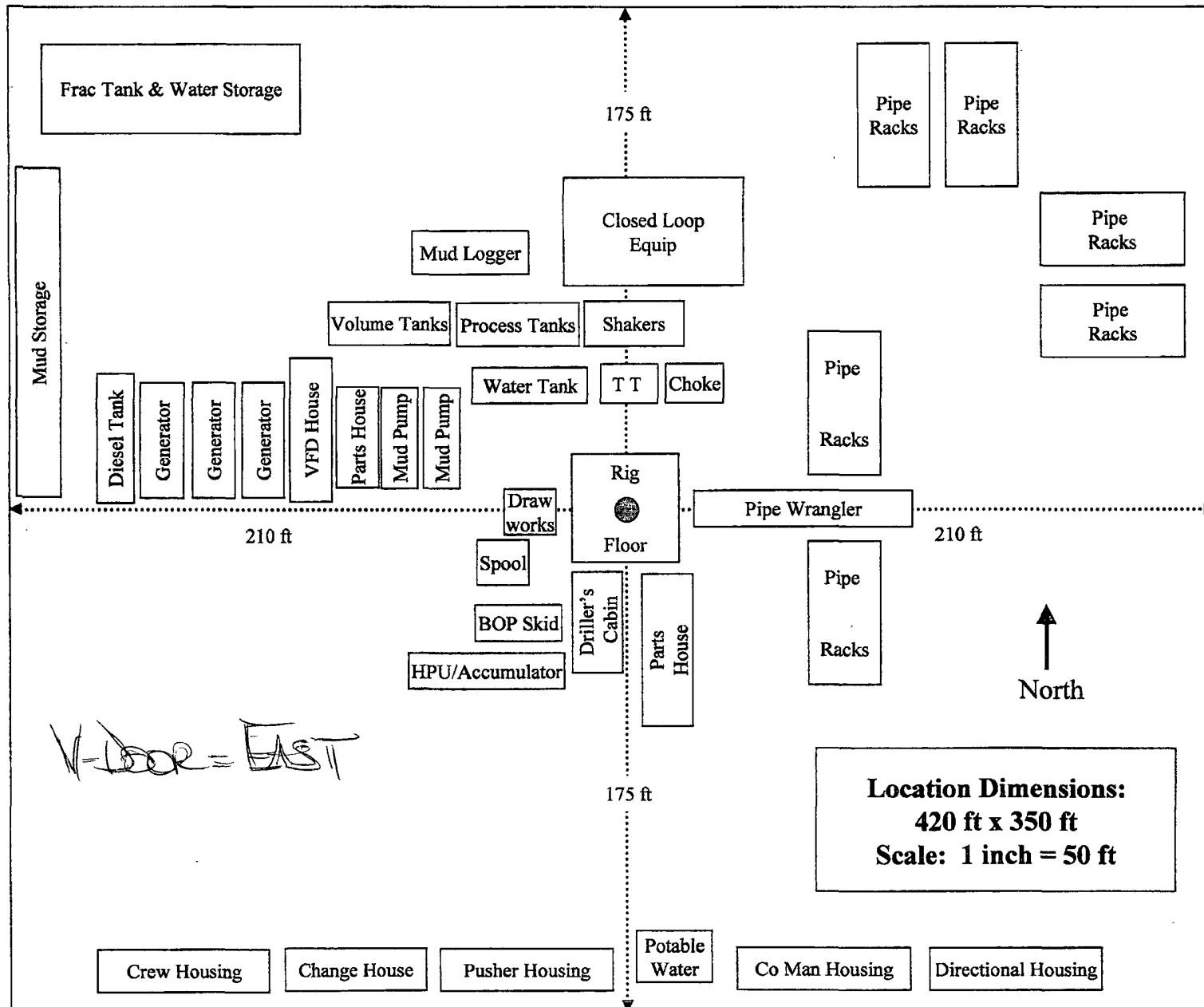
13-5/8" 3K Annular



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



H&P Flex Rig Location Layout





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 28
Phone: (361) 456-4200 • Fax: (361) 217-2972, 456-4273 • www.taurusemerge.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 I.C.

[illegible]

PHOENIX RUBBER
Industrial Ltd.
Hose Inspection and
Certification Dept.

VERIFIED TRUE COPY
PHOENIX RUBBER Q.C.



Fluid Technology

ContiTech Beattie Corp.

Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

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

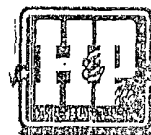
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

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

Best regards,

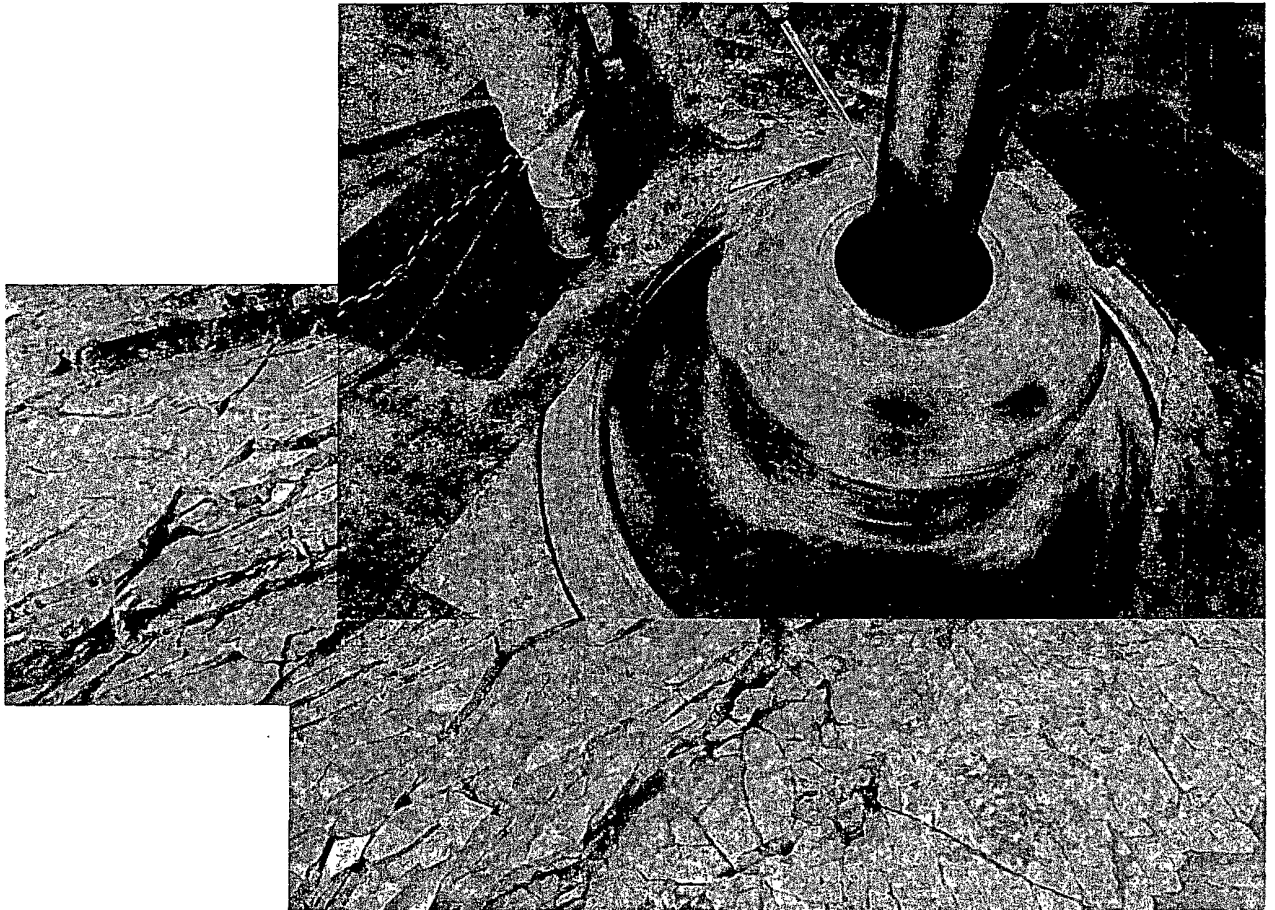
Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
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Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2008

I. Design Plan

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

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

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

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

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

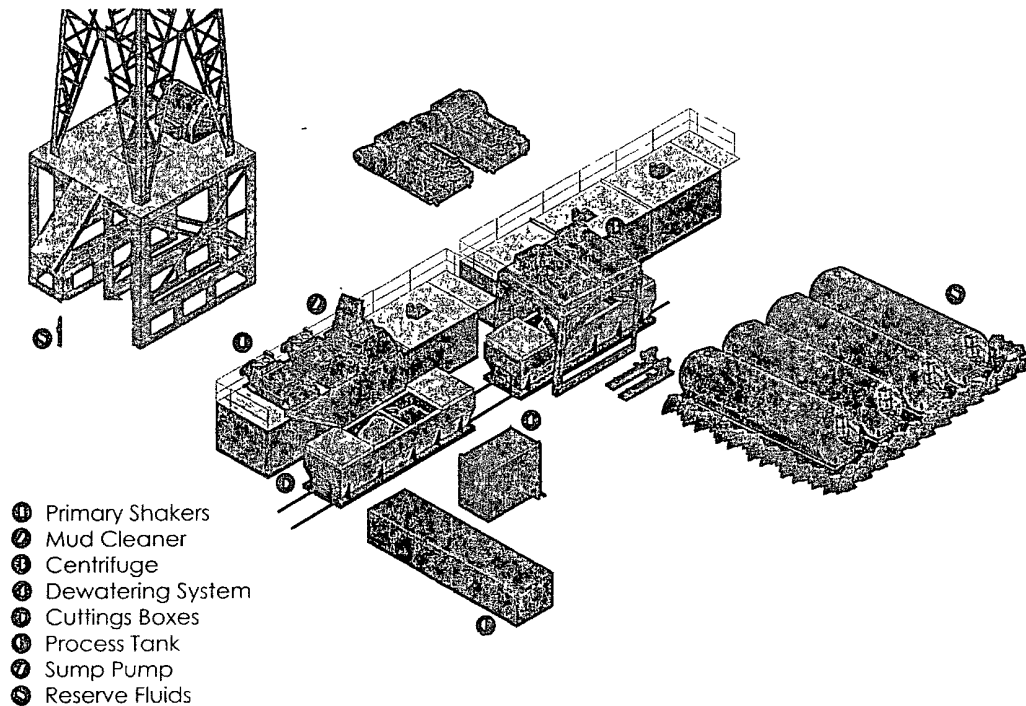
II. Operations and Maintenance Plan

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

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

devon

Closed Loop Schematic



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

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

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

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

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

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

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

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

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

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

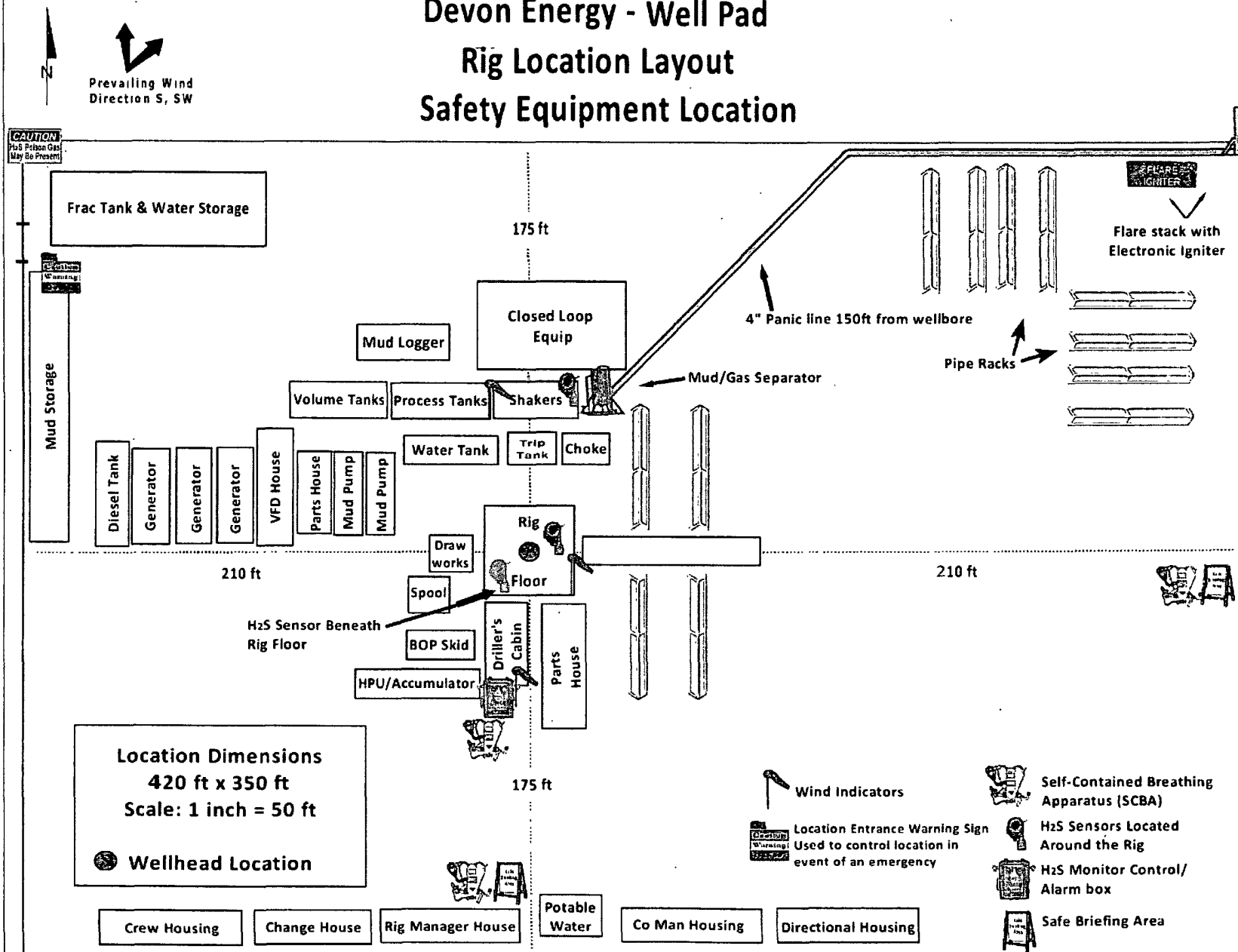
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

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

III. Closure Plan

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

Devon Energy - Well Pad Rig Location Layout Safety Equipment Location





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

Hydrogen Sulfide (H₂S) Contingency Plan

For

Burton Flat Deep Unit 48H

**Sec-28, T-20S R-28E
2310' FSL & 400' FEL,
LAT. = 32.5435843°N (NAD83)
LONG = 104.1755763°W**

Eddy County NM

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BUREAU OF LAND MGMT
CARLSBAD FIELD OFFICE

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:

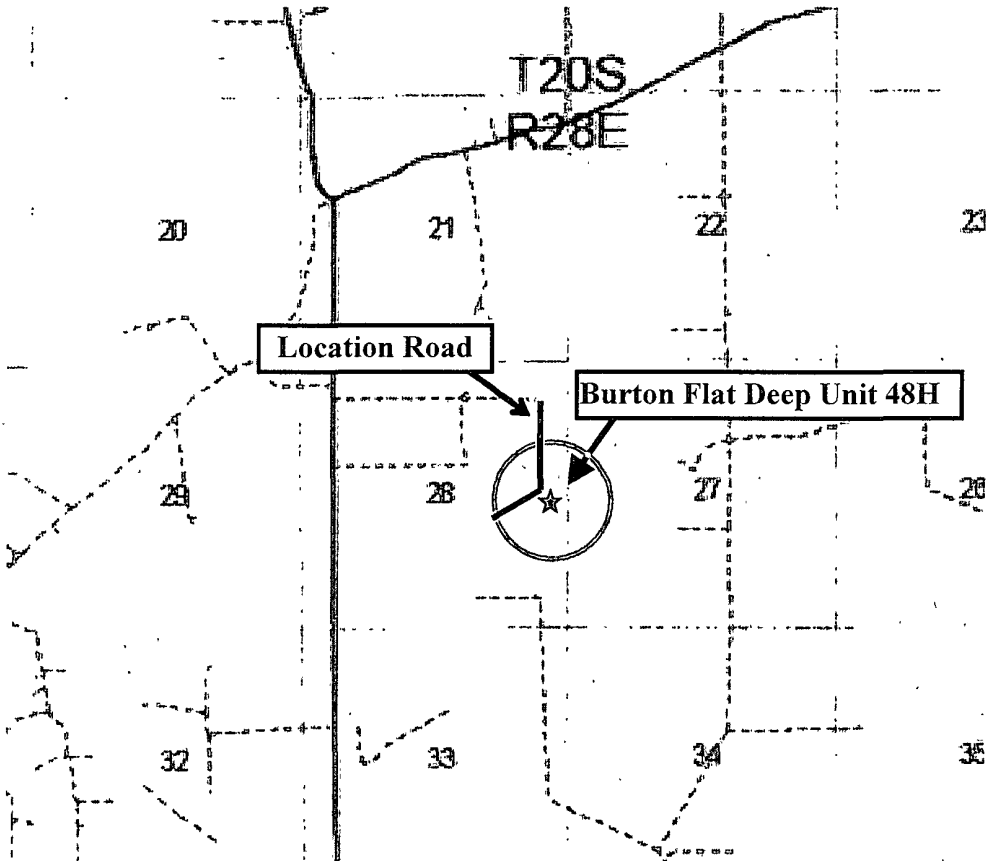
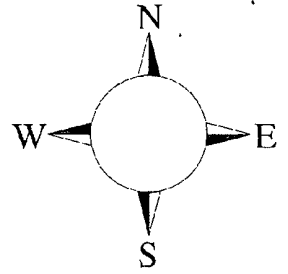
- A. Radio communications in company vehicles including cellular telephones and 2-way radio
- B. Land line (telephone) communications at Office

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.

Burton Flat Deep Unit 48H

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' (Radius of Exposure)
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, North 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. There are dwellings approximately two miles South from the wellsite. Steps should be taken, in the case of a gas release, to warn and protect those properties.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

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)

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) ..

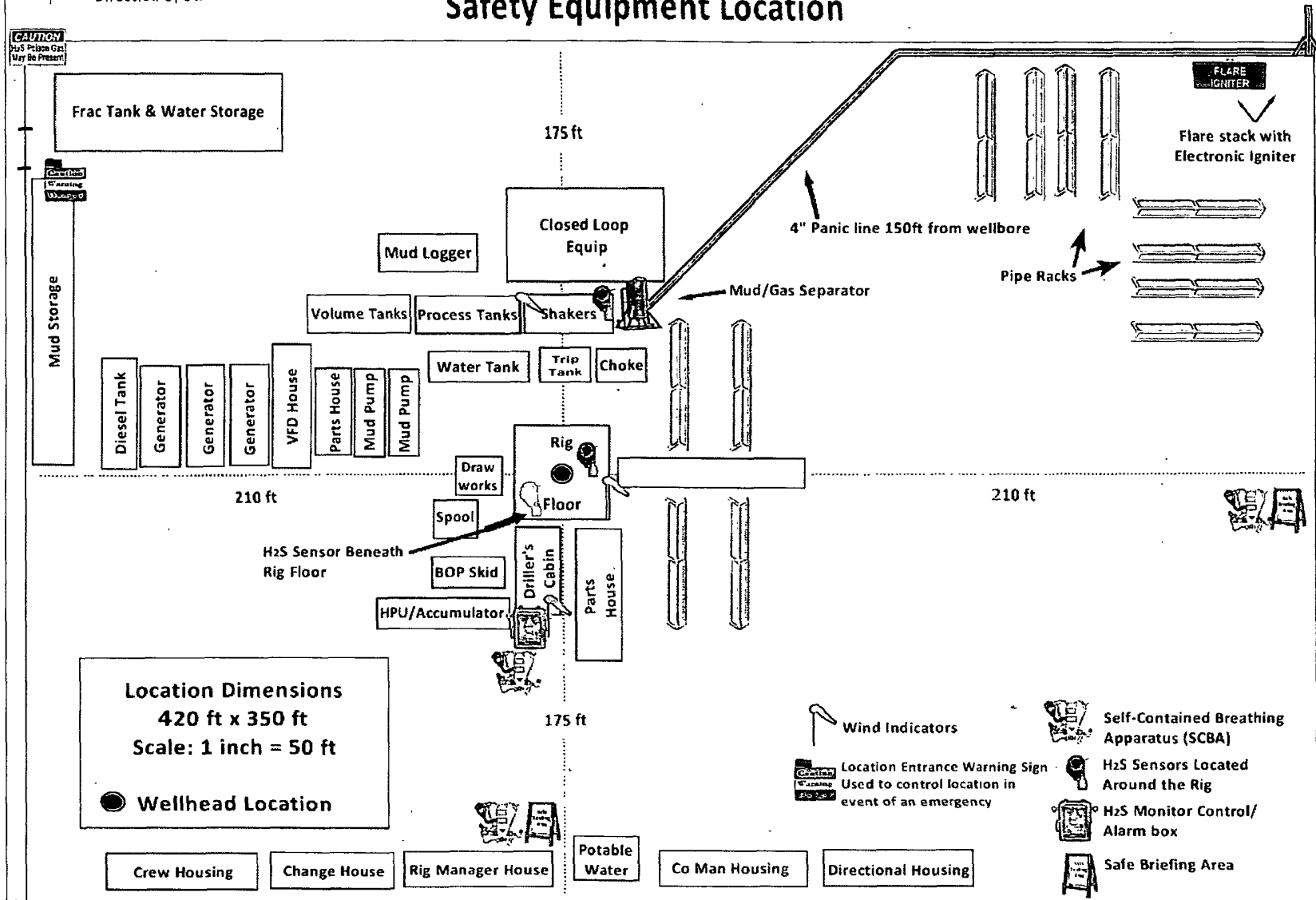
Emergency Services

	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



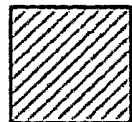
Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



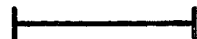
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Proposed Interim Site Reclamation

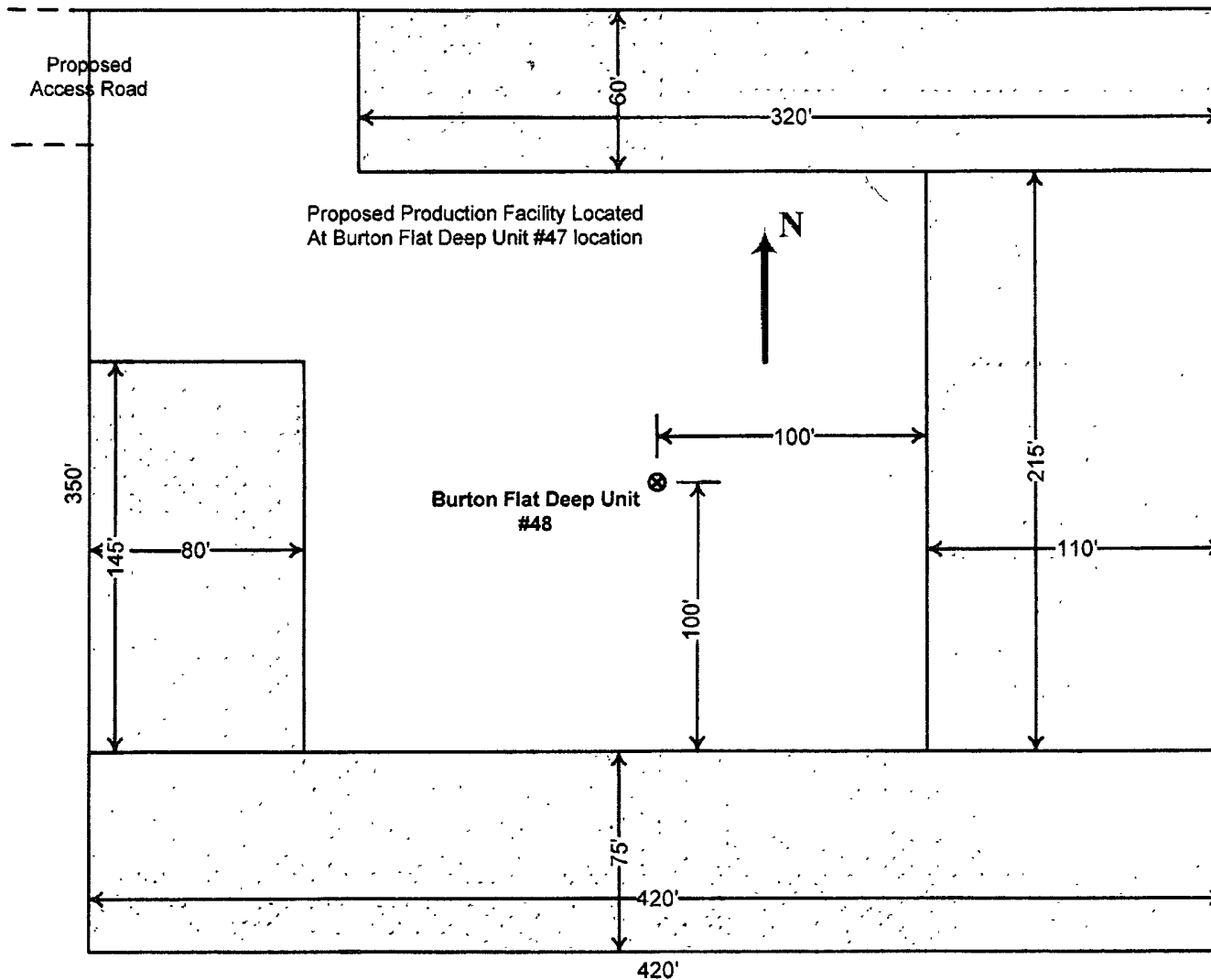
Devon Energy Production Co.
Burton Flat Deep Unit #48
2310' FSL & 400' FEL
Sec. 28-T20S-R28E
Eddy County, NM



Proposed
Reclamation
Area



Scale: 1in = 60ft.



PECOS DISTRICT

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	DEVON ENERGY PRODUCTION
LEASE NO.:	NM0490463
WELL NAME & NO.:	48H BURTON FLAT DEEP UNIT
SURFACE HOLE FOOTAGE:	2310' FSL & 400' FWL (Sec 28)
BOTTOM HOLE FOOTAGE:	330' FSL & 460' FWL (Sec. 330)
LOCATION:	Section 28, T.20 S., R.28 E., NMPM
COUNTY:	Eddy County, New Mexico

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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.

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- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
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