

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS, OGD
OCD Hobbs

MAY 16 2013

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

13-557

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No. NM 94480X	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. GAUCHO UNIT 10H <30863>	
2. Name of Operator Devon Energy Production Company, L.P.		9. API Well No. 30025-41183	
3a. Address 333 W. Sheridan Ave. Oklahoma City, OK 73102	3b. Phone No. (include area code) 405-552-7848	10. Field and Pool, or Exploratory WC-025-606 52234214;	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 200 FSL & 1780 FEL Unit O PP: 144 FSL & 1780 FEL At proposed prod. zone 330 FSL & 1780 FEL Unit O; 20-22S-34E		11. Sec., T. R. M. or Blk. and Survey or Area Bone Spring 17-22S-34E	
14. Distance in miles and direction from nearest town or post office* Approximately 19 miles southwest of Monument, NM		12. County or Parish Lea County	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200'	16. No. of acres in lease 1280 acres	17. Spacing Unit dedicated to this well 160 acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. See attached map	19. Proposed Depth TVD: 10,410' MD: 15,280'	20. BLM/BIA Bond No. on file CO-1104 & NMB-000801	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3,467.6' GL	22. Approximate date work will start* 05/20/2013	23. Estimated duration 45 days	

24. Attachments TO BE PAD DRILLED W/ GAUCHO UNIT 11H

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 	Name (Printed/Typed) David H. Cook	Date 3/7/2013
Title Regulatory Specialist		
Approved by (Signature) /s/George MacDonell	Name (Printed/Typed)	Date MAY 13 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

KZ
09/12/13

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAY 20 2013

DRILLING PROGRAM

Devon Energy Production Company, LP
Gaucho Unit 10H

Surface Location: 200 FSL & 1780 FEL, Unit O, Sec 17 T22S R34E, Lea, NM
Bottom Hole Location: 330 FSL & 1780 FEL, Unit O, Sec 20 T22S R34E, Lea, 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	295'	
b. Rustler	1,640'	
c. Top of Salt	1,925'	
d. Base of Salt	3,700'	
e. Yates	3,930'	
f. Capitan	4,147'	
g. Delaware	5,256'	
h. Lower Brushy Canyon	8,264'	Oil
i. Bone Spring	8,443'	Oil
j. 1 st Bone Spring Sand	9,497'	Oil
k. 2 nd Bone Spring Sand	10,046'	Oil
l. 3 rd Bone Spring Sand	11,003'	Oil

Total Depth 15,280' MD 10,410' TVD

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

See
COA

<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>
17-1/2"	0 – 1,700	13-3/8"	0 – 1,700	54.5#	STC	J-55
12-1/4"	1,700 – 5,250	9-5/8"	0 – 5,250 510'	40#	LTC	HCK-55
8-3/4"	5,250 – 9,600	5-1/2"	0 – 9,600	17#	LTC	HCP-110
8-3/4"	9,600 – 15,280	5-1/2"	9,600 – 15,280	17#	BTC	HCP-110

MAXIMUM LATERAL TVD **10,410'**

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13-3/8" 54.5# J-55 STC	1.42	3.43	9.81
9-5/8" 40# HCK-55 LTC	1.42	3.43	9.81
5-1/2" 17# HCP-110 LTC	1.53	2.18	1.71
5-1/2" 17# HCP-110 BTC	1.66	2.37	5.88

Cement Program: (cement volumes Surface 100%/ Intermediate 50% Production based on at least 25% excess):

13 3/8" Surface Lead: 975 sx Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.1% Fresh Water, 13.5 ppg, Yield: 1.75 cf/sk.

TOC @ surface

Tail: 515 sx Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg, Yield: 1.35 cf/sk.

9-5/8" Intermediate Lead: 1085 sx (65:35) Class C Cement:Poz (Fly Ash): + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg, Yield: 1.85 cf/sk

TOC @ surface

Tail: 360 sx Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg, Yield: 1.33 cf/sk

5-1/2" Production Lead: 810 sx (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.2% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg, Yield: 1.95 cf/sk.

Tail: 1700 sx (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg, Yield: 1.22 cf/sk

TOC @ 4750 ft

See COA

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

4. Pressure Control Equipment

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

5. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 1,700	8.8-9.0	30 – 34	N/C	FW
1,700 – 5,250 5,100	9.8 – 10.0	28 – 32	N/C	Brine
5,250 – 15,280	8.6 – 9.0	28 – 32	N/C-12	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume. If abnormal pressures are encountered, electronic/mechanical mud monitoring equipment will be installed.

6. 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 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.

7. 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 and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper. Dual Laterolog-Micro Laterolog with SP
- ii. Total Depth to Surface Compensated Neutron with Gamma Ray
- iii. No coring program is planned
- iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

8. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4600 psi and Estimated BHT 135°. No H₂S is anticipated to be encountered.

9. Anticipated Starting Date and Duration of Operations:

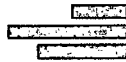
- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 20 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



Weatherford®

Drilling Services

Proposal



devon

GAUCHO UNIT 10H

LEA COUNTY, NM

WELL FILE: **PLAN 1**

FEBRUARY 28, 2013

Weatherford International, Ltd.

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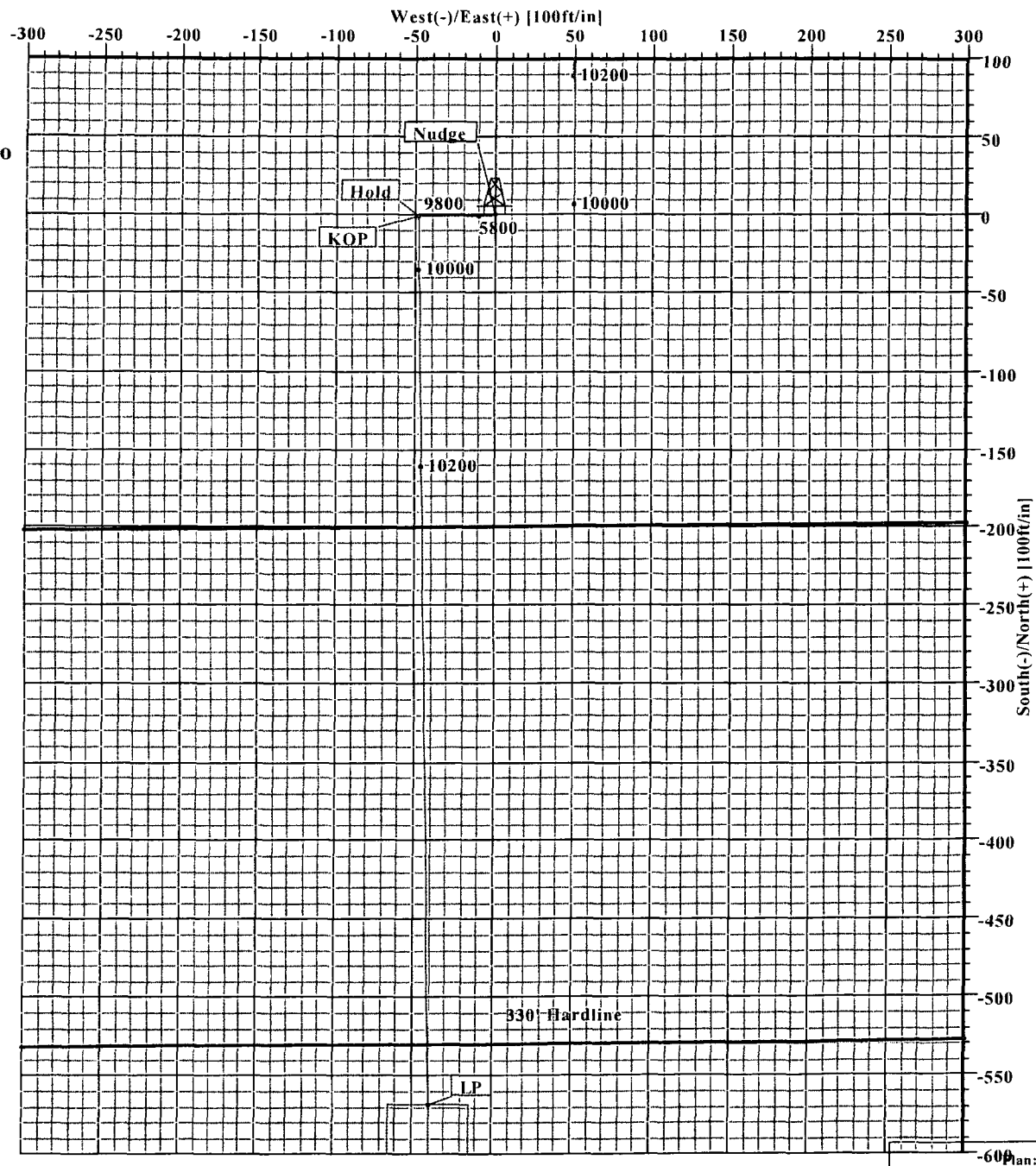
Gaucha Unit 10H
Lea County, New Mexico

LEGEND

-  Gaucha Unit 11H (1)
-  Well
-  Plan #1



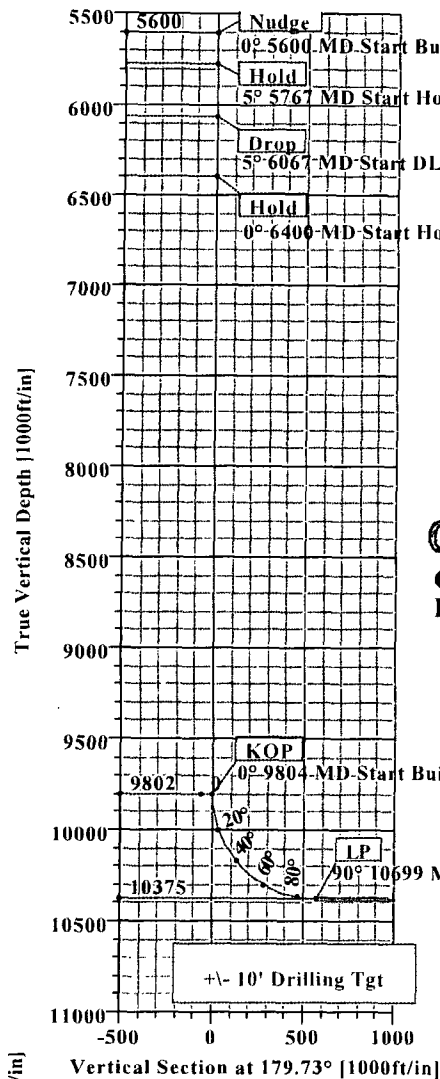
Weatherford™



Plan: Plan #1 (Gaucha Unit 10H/1)

Created By: Russell W. Joyner

Date: 2/28/2013



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	
3	5766.67	5.00	270.00	5766.46	0.00	-7.27	3.00	270.00	-0.03	
4	6066.67	5.00	270.00	6065.31	0.00	-33.41	0.00	0.00	-0.16	
5	6400.00	0.00	179.20	6398.22	0.00	-47.95	1.50	180.00	-0.23	
6	9803.57	0.00	179.20	9801.79	0.00	-47.95	0.00	0.00	-0.23	
7	10699.16	89.56	179.20	10374.73	-568.49	-39.96	10.00	179.20	568.30	PBHL
8	15280.39	89.56	179.20	10410.00	-5149.13	24.40	0.00	0.00	5149.19	PBHL

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Gaucha Unit 10H	0.00	0.00	504820.70	801880.14	32°23'05.973N	103°29'21.528W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	10410.00	-5149.13	24.40	499671.57	801904.54	Rectangle (4676x50)

devon
Gaucha Unit 10H
Lea County, New Mexico

KB ELEV: 3493
GL ELEV: 3468

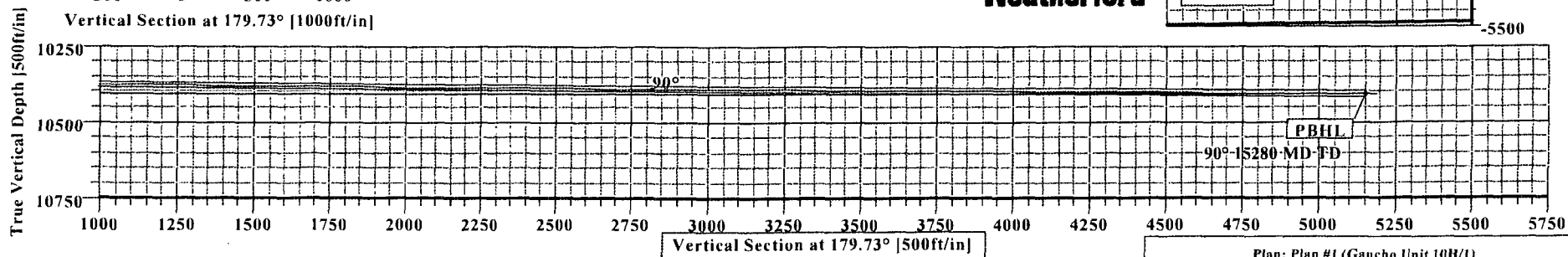
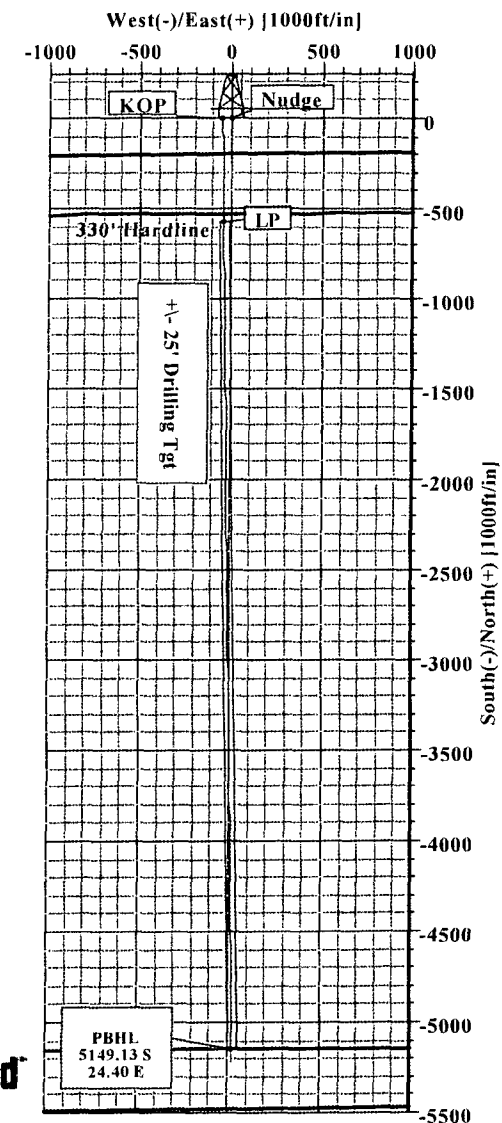
SITE DETAILS

Gaucha Unit 10H
Site Centre Northing: 504820.70
Easting: 801880.14
Ground Level: 3468.00
Positional Uncertainty: 0.00
Convergence: 0.45

LEGEND

Gaucha Unit 10H (1)
1
Plan #1

Weatherford



Plan: Plan #1 (Gaucha Unit 10H/1)

Created By: Russell W. Joyner

Date: 2/28/2013



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Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 2/28/2013 Time: 09:35:29 Page: 1
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Gaucho Unit 10H, Grid North
Site: Gaucho Unit 10H Vertical (TVD) Reference: SITE 3493.0
Well: Gaucho Unit 10H Section (VS) Reference: Well (0.00N,0.00E,179.73Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 2/28/2013
Principal: Yes Version: 1
Tied-to: From Surface

Site: Gaucho Unit 10H

Site Position: Northing: 504820.70 ft Latitude: 32 23 5.973 N
From: Map Easting: 801880.14 ft Longitude: 103 29 21.528 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3468.00 ft Grid Convergence: 0.45 deg

Well: Gaucho Unit 10H Slot Name:

Well Position: +N/-S 0.00 ft Northing: 504820.70 ft Latitude: 32 23 5.973 N
+E/-W 0.00 ft Easting: 801880.14 ft Longitude: 103 29 21.528 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3493.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 3/30/2014 Above System Datum: Mean Sea Level
Field Strength: 48468 nT Declination: 7.22 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.28 deg
ft +E/-W Direction
deg

10410.00	0.00	0.00	179.73
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Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5766.67	5.00	270.00	5766.46	0.00	-7.27	3.00	3.00	0.00	270.00	
6066.67	5.00	270.00	6065.31	0.00	-33.41	0.00	0.00	0.00	0.00	
6400.00	0.00	179.20	6398.22	0.00	-47.95	1.50	-1.50	27.00	180.00	
9803.57	0.00	179.20	9801.79	0.00	-47.95	0.00	0.00	0.00	0.00	
10699.16	89.56	179.20	10374.73	-568.49	-39.96	10.00	10.00	0.00	179.20	
15280.39	89.56	179.20	10410.00	-5149.13	24.40	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	504820.70	801880.14	Nudge
5700.00	3.00	270.00	5699.95	0.00	-2.62	-0.01	3.00	504820.70	801877.52	
5766.67	5.00	270.00	5766.46	0.00	-7.27	-0.03	3.00	504820.70	801872.87	Hold
5800.00	5.00	270.00	5799.66	0.00	-10.17	-0.05	0.00	504820.70	801869.97	
5900.00	5.00	270.00	5899.28	0.00	-18.89	-0.09	0.00	504820.70	801861.25	
6000.00	5.00	270.00	5998.90	0.00	-27.60	-0.13	0.00	504820.70	801852.54	
6066.67	5.00	270.00	6065.31	0.00	-33.41	-0.16	0.00	504820.70	801846.73	Drop
6100.00	4.50	270.00	6098.53	0.00	-36.17	-0.17	1.50	504820.70	801843.97	
6200.00	3.00	270.00	6198.32	0.00	-42.71	-0.20	1.50	504820.70	801837.43	
6300.00	1.50	270.00	6298.24	0.00	-46.64	-0.22	1.50	504820.70	801833.50	
6400.00	0.00	179.20	6398.22	0.00	-47.95	-0.23	1.50	504820.70	801832.19	Hold
6500.00	0.00	179.20	6498.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
6600.00	0.00	179.20	6598.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
6700.00	0.00	179.20	6698.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
6800.00	0.00	179.20	6798.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
6900.00	0.00	179.20	6898.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7000.00	0.00	179.20	6998.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7100.00	0.00	179.20	7098.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7200.00	0.00	179.20	7198.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7300.00	0.00	179.20	7298.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	



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Wft Plan Report X Y's.

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Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Gaucho Unit 10H
Well: Gaucho Unit 10H
Wellpath: 1

Date: 2/28/2013 Time: 09:35:29 Page: 2
Co-ordinate(NE) Reference: Well: Gaucho Unit 10H, Grid North.
Vertical (TVD) Reference: SITE 3493.0
Section (VS) Reference: Well (0.00N,0.00E,179.73Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7400.00	0.00	179.20	7398.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7500.00	0.00	179.20	7498.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7600.00	0.00	179.20	7598.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7700.00	0.00	179.20	7698.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7800.00	0.00	179.20	7798.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
7900.00	0.00	179.20	7898.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8000.00	0.00	179.20	7998.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8100.00	0.00	179.20	8098.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8200.00	0.00	179.20	8198.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8300.00	0.00	179.20	8298.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8400.00	0.00	179.20	8398.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8500.00	0.00	179.20	8498.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8600.00	0.00	179.20	8598.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8700.00	0.00	179.20	8698.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8800.00	0.00	179.20	8798.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
8900.00	0.00	179.20	8898.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9000.00	0.00	179.20	8998.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9100.00	0.00	179.20	9098.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9200.00	0.00	179.20	9198.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9300.00	0.00	179.20	9298.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9400.00	0.00	179.20	9398.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9500.00	0.00	179.20	9498.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9600.00	0.00	179.20	9598.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9700.00	0.00	179.20	9698.22	0.00	-47.95	-0.23	0.00	504820.70	801832.19	
9803.57	0.00	179.20	9801.79	0.00	-47.95	-0.23	0.00	504820.70	801832.19	KOP
9850.00	4.64	179.20	9848.17	-1.88	-47.92	1.65	10.00	504818.82	801832.22	
9900.00	9.64	179.20	9897.77	-8.09	-47.84	7.87	10.00	504812.61	801832.30	
9950.00	14.64	179.20	9946.64	-18.61	-47.69	18.38	10.00	504802.09	801832.45	
10000.00	19.64	179.20	9994.40	-33.34	-47.48	33.12	10.00	504787.36	801832.66	
10050.00	24.64	179.20	10040.70	-52.18	-47.22	51.96	10.00	504768.52	801832.92	
10100.00	29.64	179.20	10085.18	-74.98	-46.90	74.76	10.00	504745.72	801833.24	
10150.00	34.64	179.20	10127.50	-101.57	-46.52	101.35	10.00	504719.13	801833.62	
10200.00	39.64	179.20	10167.34	-131.75	-46.10	131.53	10.00	504688.95	801834.04	
10250.00	44.64	179.20	10204.40	-165.28	-45.63	165.07	10.00	504655.42	801834.51	
10300.00	49.64	179.20	10238.40	-201.92	-45.11	201.71	10.00	504618.78	801835.03	
10350.00	54.64	179.20	10269.08	-241.38	-44.56	241.17	10.00	504579.32	801835.58	
10400.00	59.64	179.20	10296.20	-283.37	-43.97	283.16	10.00	504537.33	801836.17	
10450.00	64.64	179.20	10319.55	-327.55	-43.35	327.34	10.00	504493.15	801836.79	
10500.00	69.64	179.20	10338.97	-373.61	-42.70	373.40	10.00	504447.09	801837.44	
10550.00	74.64	179.20	10354.29	-421.18	-42.03	420.98	10.00	504399.52	801838.11	
10600.00	79.64	179.20	10365.42	-469.91	-41.35	469.71	10.00	504350.79	801838.79	
10650.00	84.64	179.20	10372.25	-519.42	-40.65	519.22	10.00	504301.28	801839.49	
10699.16	89.56	179.20	10374.73	-568.49	-39.96	568.30	10.00	504252.21	801840.18	LP
10800.00	89.56	179.20	10375.51	-669.32	-38.55	669.13	0.00	504151.38	801841.59	
10900.00	89.56	179.20	10376.28	-769.31	-37.14	769.12	0.00	504051.39	801843.00	
11000.00	89.56	179.20	10377.05	-869.29	-35.74	869.12	0.00	503951.41	801844.40	
11100.00	89.56	179.20	10377.82	-969.28	-34.33	969.11	0.00	503851.42	801845.81	
11200.00	89.56	179.20	10378.59	-1069.27	-32.93	1069.10	0.00	503751.43	801847.21	
11300.00	89.56	179.20	10379.36	-1169.26	-31.52	1169.09	0.00	503651.44	801848.62	
11400.00	89.56	179.20	10380.13	-1269.24	-30.12	1269.09	0.00	503551.46	801850.02	
11500.00	89.56	179.20	10380.90	-1369.23	-28.71	1369.08	0.00	503451.47	801851.43	
11600.00	89.56	179.20	10381.67	-1469.22	-27.31	1469.07	0.00	503351.48	801852.83	



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Gaucho Unit 10H
Well: Gaucho Unit 10H
Wellpath: 1

Date: 2/28/2013 Time: 09:35:29 Page: 3
Co-ordinate(NE) Reference: Well: Gaucho Unit 10H, Grid North
Vertical (TVD) Reference: SITE 3493.0
Section (VS) Reference: Well: (0.00N,0.00E,179.73Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comments
11700.00	89.56	179.20	10382.44	-1569.20	-25.90	1569.06	0.00	503251.50	801854.24	
11800.00	89.56	179.20	10383.21	-1669.19	-24.50	1669.06	0.00	503151.51	801855.64	
11900.00	89.56	179.20	10383.98	-1769.18	-23.09	1769.05	0.00	503051.52	801857.05	
12000.00	89.56	179.20	10384.75	-1869.17	-21.69	1869.04	0.00	502951.53	801858.45	
12100.00	89.56	179.20	10385.52	-1969.15	-20.28	1969.04	0.00	502851.55	801859.86	
12200.00	89.56	179.20	10386.29	-2069.14	-18.88	2069.03	0.00	502751.56	801861.26	
12300.00	89.56	179.20	10387.06	-2169.13	-17.47	2169.02	0.00	502651.57	801862.67	
12400.00	89.56	179.20	10387.83	-2269.11	-16.07	2269.01	0.00	502551.59	801864.07	
12500.00	89.56	179.20	10388.60	-2369.10	-14.66	2369.01	0.00	502451.60	801865.48	
12600.00	89.56	179.20	10389.37	-2469.09	-13.26	2469.00	0.00	502351.61	801866.88	
12700.00	89.56	179.20	10390.14	-2569.08	-11.85	2568.99	0.00	502251.62	801868.29	
12800.00	89.56	179.20	10390.91	-2669.06	-10.45	2668.98	0.00	502151.64	801869.69	
12900.00	89.56	179.20	10391.68	-2769.05	-9.04	2768.98	0.00	502051.65	801871.10	
13000.00	89.56	179.20	10392.45	-2869.04	-7.64	2868.97	0.00	501951.66	801872.50	
13100.00	89.56	179.20	10393.22	-2969.02	-6.23	2968.96	0.00	501851.68	801873.91	
13200.00	89.56	179.20	10393.99	-3069.01	-4.83	3068.95	0.00	501751.69	801875.31	
13300.00	89.56	179.20	10394.76	-3169.00	-3.42	3168.95	0.00	501651.70	801876.72	
13400.00	89.56	179.20	10395.52	-3268.99	-2.02	3268.94	0.00	501551.71	801878.12	
13500.00	89.56	179.20	10396.29	-3368.97	-0.61	3368.93	0.00	501451.73	801879.53	
13600.00	89.56	179.20	10397.06	-3468.96	0.79	3468.93	0.00	501351.74	801880.93	
13700.00	89.56	179.20	10397.83	-3568.95	2.20	3568.92	0.00	501251.75	801882.34	
13800.00	89.56	179.20	10398.60	-3668.93	3.60	3668.91	0.00	501151.77	801883.74	
13900.00	89.56	179.20	10399.37	-3768.92	5.01	3768.90	0.00	501051.78	801885.15	
14000.00	89.56	179.20	10400.14	-3868.91	6.41	3868.90	0.00	500951.79	801886.55	
14100.00	89.56	179.20	10400.91	-3968.90	7.82	3968.89	0.00	500851.80	801887.96	
14200.00	89.56	179.20	10401.68	-4068.88	9.22	4068.88	0.00	500751.82	801889.36	
14300.00	89.56	179.20	10402.45	-4168.87	10.63	4168.87	0.00	500651.83	801890.77	
14400.00	89.56	179.20	10403.22	-4268.86	12.03	4268.87	0.00	500551.84	801892.17	
14500.00	89.56	179.20	10403.99	-4368.84	13.44	4368.86	0.00	500451.86	801893.58	
14600.00	89.56	179.20	10404.76	-4468.83	14.84	4468.85	0.00	500351.87	801894.98	
14700.00	89.56	179.20	10405.53	-4568.82	16.25	4568.84	0.00	500251.88	801896.39	
14800.00	89.56	179.20	10406.30	-4668.81	17.65	4668.84	0.00	500151.89	801897.79	
14900.00	89.56	179.20	10407.07	-4768.79	19.06	4768.83	0.00	500051.91	801899.20	
15000.00	89.56	179.20	10407.84	-4868.78	20.46	4868.82	0.00	499951.92	801900.60	
15100.00	89.56	179.20	10408.61	-4968.77	21.87	4968.82	0.00	499851.93	801902.01	
15200.00	89.56	179.20	10409.38	-5068.75	23.27	5068.81	0.00	499751.95	801903.41	
15280.39	89.56	179.20	10410.00	-5149.13	24.40	5149.19	0.00	499671.57	801904.54	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
PBHL	0.44	179.20	10410.00	-5149.13	24.40	499671.57	801904.54	32	22	15.022 N	103	29	21.717 W
-Rectangle (4581x50)													

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford

Wft Plan Report X Y's.



Weatherford

Company: Devon Energy Date: 2/28/2013 Time: 09:35:29 Page: 4
Field: Lea County, New Mexico (NAD 83) Co-ordinate(NE) Reference: Well: Gaucho Unit 10H; Grid North
Site: Gaucho Unit 10H Vertical (TVD) Reference: SITE 3493.0
Well: Gaucho Unit 10H Section (VS) Reference: Well (0.00N,0.00E,179.73Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
5600.00	5600.00	Nudge
5766.67	5766.46	Hold
6066.67	6065.32	Drop
6400.00	6398.22	Hold
9803.57	9801.79	KOP
10699.16	10374.73	LP
15280.38	10410.00	PBHL



Weatherford Anticollision Report



Company: Devon Energy Date: 2/28/2013 Time: 09:42:41 Page: 1
Field: Lea County, New Mexico (NAD 83)
Reference Site: Gaucho Unit 10H Co-ordinate(NE) Reference: Well: Gaucho Unit 10H; Grid North
Reference Well: Gaucho Unit 10H Vertical (TVD) Reference: SITE 3493.0
Reference Wellpath: Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method MD + Stations Interval: 100.00 ft
Depth Range: 0.00 to 15280.39 ft
Maximum Radius 40000.00 ft

Reference: Plan: Plan #1
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

Plan: Plan #1

Date Composed: 2/28/2013

Principal: Yes

Version: 1

Tied-to: From Surface

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
Gaucha Unit 11H	Gaucha Unit 11H	1 V0 Plan: Plan #1 V1	5600.00	5600.00	49.99	25.10	2.01	

Site: Gaucho Unit 11H

Well: Gaucho Unit 11H

Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major-Axis Ref ft	Offset TFO-HS ft	North deg	East ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	89.54	0.40	49.99	49.99		No Data
100.00	100.00	100.00	100.00	0.08	0.08	89.54	0.40	49.99	49.99	49.82	296.55
200.00	200.00	200.00	200.00	0.31	0.31	89.54	0.40	49.99	49.99	49.37	80.88
300.00	300.00	300.00	300.00	0.53	0.53	89.54	0.40	49.99	49.99	48.92	46.82
400.00	400.00	400.00	400.00	0.76	0.76	89.54	0.40	49.99	49.99	48.47	32.95
500.00	500.00	500.00	500.00	0.98	0.98	89.54	0.40	49.99	49.99	48.02	25.42
600.00	600.00	600.00	600.00	1.21	1.21	89.54	0.40	49.99	49.99	47.58	20.69
700.00	700.00	700.00	700.00	1.43	1.43	89.54	0.40	49.99	49.99	47.13	17.44
800.00	800.00	800.00	800.00	1.66	1.66	89.54	0.40	49.99	49.99	46.68	15.08
900.00	900.00	900.00	900.00	1.88	1.88	89.54	0.40	49.99	49.99	46.23	13.28
1000.00	1000.00	1000.00	1000.00	2.11	2.11	89.54	0.40	49.99	49.99	45.78	11.86
1100.00	1100.00	1100.00	1100.00	2.33	2.33	89.54	0.40	49.99	49.99	45.33	10.72
1200.00	1200.00	1200.00	1200.00	2.56	2.56	89.54	0.40	49.99	49.99	44.88	9.78
1300.00	1300.00	1300.00	1300.00	2.78	2.78	89.54	0.40	49.99	49.99	44.43	8.99
1400.00	1400.00	1400.00	1400.00	3.01	3.01	89.54	0.40	49.99	49.99	43.98	8.31
1500.00	1500.00	1500.00	1500.00	3.23	3.23	89.54	0.40	49.99	49.99	43.53	7.74
1600.00	1600.00	1600.00	1600.00	3.46	3.46	89.54	0.40	49.99	49.99	43.08	7.23
1700.00	1700.00	1700.00	1700.00	3.68	3.68	89.54	0.40	49.99	49.99	42.63	6.79
1800.00	1800.00	1800.00	1800.00	3.91	3.91	89.54	0.40	49.99	49.99	42.18	6.40
1900.00	1900.00	1900.00	1900.00	4.13	4.13	89.54	0.40	49.99	49.99	41.73	6.05
2000.00	2000.00	2000.00	2000.00	4.35	4.35	89.54	0.40	49.99	49.99	41.28	5.74
2100.00	2100.00	2100.00	2100.00	4.58	4.58	89.54	0.40	49.99	49.99	40.83	5.46
2200.00	2200.00	2200.00	2200.00	4.80	4.80	89.54	0.40	49.99	49.99	40.38	5.20
2300.00	2300.00	2300.00	2300.00	5.03	5.03	89.54	0.40	49.99	49.99	39.93	4.97
2400.00	2400.00	2400.00	2400.00	5.25	5.25	89.54	0.40	49.99	49.99	39.48	4.76
2500.00	2500.00	2500.00	2500.00	5.48	5.48	89.54	0.40	49.99	49.99	39.03	4.56
2600.00	2600.00	2600.00	2600.00	5.70	5.70	89.54	0.40	49.99	49.99	38.58	4.38
2700.00	2700.00	2700.00	2700.00	5.93	5.93	89.54	0.40	49.99	49.99	38.14	4.22
2800.00	2800.00	2800.00	2800.00	6.15	6.15	89.54	0.40	49.99	49.99	37.69	4.06
2900.00	2900.00	2900.00	2900.00	6.38	6.38	89.54	0.40	49.99	49.99	37.24	3.92
3000.00	3000.00	3000.00	3000.00	6.60	6.60	89.54	0.40	49.99	49.99	36.79	3.79
3100.00	3100.00	3100.00	3100.00	6.83	6.83	89.54	0.40	49.99	49.99	36.34	3.66
3200.00	3200.00	3200.00	3200.00	7.05	7.05	89.54	0.40	49.99	49.99	35.89	3.54
3300.00	3300.00	3300.00	3300.00	7.28	7.28	89.54	0.40	49.99	49.99	35.44	3.43
3400.00	3400.00	3400.00	3400.00	7.50	7.50	89.54	0.40	49.99	49.99	34.99	3.33
3500.00	3500.00	3500.00	3500.00	7.73	7.73	89.54	0.40	49.99	49.99	34.54	3.24



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Reference Site: Gaucho Unit 10H
Reference Well: Gaucho Unit 10H
Reference Wellpath:

Date: 2/28/2013 Time: 09:42:41 Page: 2
Co-ordinate(NE) Reference: Well: Gaucho Unit 10H, Grid North
Vertical (TVD) Reference: SITE 3493.0

Db: Sybase

Site: Gaucho Unit 11H
Well: Gaucho Unit 11H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
3600.00	3600.00	3600.00	3600.00	7.95	7.95	89.54	0.40	49.99	49.99	34.09	3.14	
3700.00	3700.00	3700.00	3700.00	8.18	8.18	89.54	0.40	49.99	49.99	33.64	3.06	
3800.00	3800.00	3800.00	3800.00	8.40	8.40	89.54	0.40	49.99	49.99	33.19	2.98	
3900.00	3900.00	3900.00	3900.00	8.63	8.63	89.54	0.40	49.99	49.99	32.74	2.90	
4000.00	4000.00	4000.00	4000.00	8.85	8.85	89.54	0.40	49.99	49.99	32.29	2.82	
4100.00	4100.00	4100.00	4100.00	9.07	9.07	89.54	0.40	49.99	49.99	31.84	2.75	
4200.00	4200.00	4200.00	4200.00	9.30	9.30	89.54	0.40	49.99	49.99	31.39	2.69	
4300.00	4300.00	4300.00	4300.00	9.52	9.52	89.54	0.40	49.99	49.99	30.94	2.62	
4400.00	4400.00	4400.00	4400.00	9.75	9.75	89.54	0.40	49.99	49.99	30.49	2.56	
4500.00	4500.00	4500.00	4500.00	9.97	9.97	89.54	0.40	49.99	49.99	30.04	2.51	
4600.00	4600.00	4600.00	4600.00	10.20	10.20	89.54	0.40	49.99	49.99	29.59	2.45	
4700.00	4700.00	4700.00	4700.00	10.42	10.42	89.54	0.40	49.99	49.99	29.14	2.40	
4800.00	4800.00	4800.00	4800.00	10.65	10.65	89.54	0.40	49.99	49.99	28.70	2.35	
4900.00	4900.00	4900.00	4900.00	10.87	10.87	89.54	0.40	49.99	49.99	28.25	2.30	
5000.00	5000.00	5000.00	5000.00	11.10	11.10	89.54	0.40	49.99	49.99	27.80	2.25	
5100.00	5100.00	5100.00	5100.00	11.32	11.32	89.54	0.40	49.99	49.99	27.35	2.21	
5200.00	5200.00	5200.00	5200.00	11.55	11.55	89.54	0.40	49.99	49.99	26.90	2.16	
5300.00	5300.00	5300.00	5300.00	11.77	11.77	89.54	0.40	49.99	49.99	26.45	2.12	
5400.00	5400.00	5400.00	5400.00	12.00	12.00	89.54	0.40	49.99	49.99	26.00	2.08	
5500.00	5500.00	5500.00	5500.00	12.22	12.22	89.54	0.40	49.99	49.99	25.55	2.05	
5600.00	5600.00	5600.00	5600.00	12.45	12.45	89.54	0.40	49.99	49.99	25.10	2.01	
5700.00	5699.95	5699.95	5699.95	12.66	12.67	179.56	0.40	49.99	52.61	27.30	2.08	
5766.67	5766.46	5766.46	5766.46	12.79	12.82	179.60	0.40	49.99	57.26	31.69	2.24	
5800.00	5799.66	5799.66	5799.66	12.86	12.90	179.62	0.40	49.99	60.16	34.46	2.34	
5900.00	5899.28	5899.28	5899.28	13.06	13.12	179.67	0.40	49.99	68.88	42.75	2.64	
6000.00	5998.90	5998.90	5998.90	13.27	13.34	179.70	0.40	49.99	77.59	51.04	2.92	
6066.67	6065.31	6065.31	6065.31	13.41	13.49	179.72	0.40	49.99	83.41	56.57	3.11	
6100.00	6098.53	6098.53	6098.53	13.47	13.57	179.73	0.40	49.99	86.17	59.19	3.19	
6200.00	6198.32	6198.32	6198.32	13.67	13.79	179.75	0.40	49.99	92.71	65.29	3.38	
6300.00	6298.24	6298.24	6298.24	13.87	14.02	179.76	0.40	49.99	96.63	68.78	3.47	
6400.00	6398.22	6398.22	6398.22	14.08	14.24	89.77	0.40	49.99	97.94	69.65	3.46	
6500.00	6498.22	6498.22	6498.22	14.28	14.47	89.77	0.40	49.99	97.94	69.23	3.41	
6600.00	6598.22	6598.22	6598.22	14.45	14.69	89.77	0.40	49.99	97.94	68.83	3.36	
6700.00	6698.22	6698.22	6698.22	14.62	14.91	89.77	0.40	49.99	97.94	68.43	3.32	
6800.00	6798.22	6798.22	6798.22	14.80	15.14	89.77	0.40	49.99	97.94	68.03	3.27	
6900.00	6898.22	6898.22	6898.22	14.97	15.36	89.77	0.40	49.99	97.94	67.63	3.23	
7000.00	6998.22	6998.22	6998.22	15.15	15.59	89.77	0.40	49.99	97.94	67.23	3.19	
7100.00	7098.22	7098.22	7098.22	15.33	15.81	89.77	0.40	49.99	97.94	66.83	3.15	
7200.00	7198.22	7198.22	7198.22	15.51	16.04	89.77	0.40	49.99	97.94	66.42	3.11	
7300.00	7298.22	7298.22	7298.22	15.69	16.26	89.77	0.40	49.99	97.94	66.02	3.07	
7400.00	7398.22	7398.22	7398.22	15.87	16.49	89.77	0.40	49.99	97.94	65.61	3.03	
7500.00	7498.22	7498.22	7498.22	16.06	16.71	89.77	0.40	49.99	97.94	65.20	2.99	
7600.00	7598.22	7598.22	7598.22	16.24	16.94	89.77	0.40	49.99	97.94	64.79	2.95	
7700.00	7698.22	7698.22	7698.22	16.43	17.16	89.77	0.40	49.99	97.94	64.38	2.92	
7800.00	7798.22	7798.22	7798.22	16.61	17.39	89.77	0.40	49.99	97.94	63.97	2.88	
7900.00	7898.22	7898.22	7898.22	16.80	17.61	89.77	0.40	49.99	97.94	63.56	2.85	
8000.00	7998.22	7998.22	7998.22	16.99	17.84	89.77	0.40	49.99	97.94	63.14	2.81	
8100.00	8098.22	8098.22	8098.22	17.18	18.06	89.77	0.40	49.99	97.94	62.73	2.78	
8200.00	8198.22	8198.22	8198.22	17.37	18.29	89.77	0.40	49.99	97.94	62.31	2.75	
8300.00	8298.22	8298.22	8298.22	17.56	18.51	89.77	0.40	49.99	97.94	61.90	2.72	
8400.00	8398.22	8398.22	8398.22	17.75	18.74	89.77	0.40	49.99	97.94	61.48	2.69	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/28/2013 Time: 09:42:41 Page: 3
Field: Lea County, New Mexico (NAD 83)
Reference Site: Gaucho Unit 10H Co-ordinate(NE) Reference: Well: Gaucho Unit 10H, Grid North
Reference Well: Gaucho Unit 10H Vertical (TVD) Reference: SITE 3493.0
Reference Wellpath: Db: Sybase

Site: Gaucho Unit 11H
Well: Gaucho Unit 11H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Edge Distance ft	Séparation Distance ft	Factor	Warning
8500.00	8498.22	8498.22	8498.22	17.94	18.96	89.77	0.40	49.99	97.94	61.06	2.66	
8600.00	8598.22	8598.22	8598.22	18.13	19.19	89.77	0.40	49.99	97.94	60.65	2.63	
8700.00	8698.22	8698.22	8698.22	18.33	19.41	89.77	0.40	49.99	97.94	60.23	2.60	
8800.00	8798.22	8798.22	8798.22	18.52	19.63	89.77	0.40	49.99	97.94	59.81	2.57	
8900.00	8898.22	8898.22	8898.22	18.72	19.86	89.77	0.40	49.99	97.94	59.39	2.54	
9000.00	8998.22	8998.22	8998.22	18.91	20.08	89.77	0.40	49.99	97.94	58.97	2.51	
9100.00	9098.22	9098.22	9098.22	19.11	20.31	89.77	0.40	49.99	97.94	58.54	2.49	
9200.00	9198.22	9198.22	9198.22	19.31	20.53	89.77	0.40	49.99	97.94	58.12	2.46	
9300.00	9298.22	9298.22	9298.22	19.50	20.76	89.77	0.40	49.99	97.94	57.70	2.43	
9400.00	9398.22	9398.22	9398.22	19.70	20.98	89.77	0.40	49.99	97.94	57.28	2.41	
9500.00	9498.22	9498.22	9498.22	19.90	21.21	89.77	0.40	49.99	97.94	56.85	2.38	
9600.00	9598.22	9598.22	9598.22	20.10	21.43	89.77	0.40	49.99	97.94	56.43	2.36	
9700.00	9698.22	9698.22	9698.22	20.30	21.66	89.77	0.40	49.99	97.94	56.00	2.34	
9800.00	9798.22	9798.22	9798.22	20.50	21.88	89.77	0.40	49.99	97.94	55.58	2.31	
9803.57	9801.79	9801.79	9801.79	20.51	21.89	89.77	0.40	49.99	97.94	55.56	2.31	
9850.00	9848.17	9848.17	9848.17	20.58	21.99	269.47	0.40	49.99	97.94	55.36	2.30	
9900.00	9897.77	9897.77	9897.77	20.68	22.11	265.90	0.40	49.99	98.19	55.41	2.30	
9950.00	9946.64	9945.72	9945.71	20.78	22.21	259.94	0.96	49.99	99.62	56.64	2.32	
10000.00	9994.40	9989.30	9989.08	20.88	22.31	251.34	5.06	49.96	104.87	61.76	2.43	
10050.00	10040.70	10027.38	10026.54	20.98	22.39	242.48	11.87	49.92	117.20	74.14	2.72	
10100.00	10085.18	10059.29	10057.43	21.09	22.46	235.46	19.85	49.86	138.29	95.47	3.23	
10150.00	10127.50	10085.03	10081.91	21.21	22.51	231.03	27.79	49.81	167.60	125.13	3.95	
10200.00	10167.34	10105.03	10100.62	21.34	22.55	229.23	34.85	49.77	203.46	161.34	4.83	
10250.00	10204.40	10119.92	10114.35	21.49	22.58	230.06	40.62	49.73	244.13	202.22	5.83	
10300.00	10238.40	10130.39	10123.88	21.66	22.61	233.88	44.93	49.70	288.17	246.22	6.87	
10350.00	10269.08	10137.07	10129.93	21.85	22.62	241.64	47.79	49.68	334.46	292.11	7.90	
10400.00	10296.20	10140.56	10133.06	22.06	22.63	254.81	49.32	49.67	382.18	339.05	8.86	
10450.00	10319.55	10141.35	10133.77	22.31	22.63	274.02	49.67	49.67	430.65	387.01	9.87	
10500.00	10338.97	10139.85	10132.43	22.58	22.63	295.60	49.01	49.68	479.37	436.50	11.18	
10550.00	10354.29	10136.43	10129.35	22.88	22.62	313.46	47.51	49.69	527.91	486.70	12.81	
10600.00	10365.42	10131.37	10124.77	23.21	22.61	325.75	45.35	49.70	575.92	536.20	14.50	
10650.00	10372.25	10125.00	10118.99	23.57	22.59	333.81	42.69	49.72	623.11	584.35	16.08	
10699.16	10374.73	10117.40	10112.04	23.94	22.58	339.16	39.62	49.74	668.47	630.23	17.48	
10700.00	10374.74	10117.27	10111.91	23.95	22.58	339.17	39.56	49.74	669.23	630.99	17.50	
10800.00	10375.51	10100.00	10095.94	24.79	22.54	340.30	33.00	49.78	761.06	722.53	19.75	
10900.00	10376.28	10089.21	10085.85	25.73	22.52	340.95	29.20	49.80	854.12	815.28	21.99	
11000.00	10377.05	10075.00	10072.42	26.76	22.49	341.76	24.54	49.83	948.18	909.00	24.20	
11100.00	10377.82	10068.12	10065.88	27.88	22.48	342.13	22.42	49.85	1043.01	1003.46	26.37	
11200.00	10378.59	10059.45	10057.58	29.07	22.46	342.58	19.90	49.86	1138.50	1098.54	28.50	
11300.00	10379.36	10050.00	10048.49	30.32	22.44	343.05	17.31	49.88	1234.52	1194.14	30.57	
11400.00	10380.13	10050.00	10048.49	31.63	22.44	343.05	17.31	49.88	1331.02	1290.17	32.58	
11500.00	10380.90	10038.71	10037.56	32.99	22.41	343.58	14.46	49.90	1427.82	1386.52	34.57	
11600.00	10381.67	10033.13	10032.15	34.39	22.40	343.83	13.15	49.91	1524.97	1483.18	36.49	
11700.00	10382.44	10025.00	10024.22	35.83	22.39	344.19	11.35	49.92	1622.42	1580.12	38.36	
11800.00	10383.21	10025.00	10024.22	37.31	22.39	344.19	11.35	49.92	1720.07	1677.22	40.14	
11900.00	10383.98	10025.00	10024.22	38.82	22.39	344.19	11.35	49.92	1817.98	1774.55	41.86	
12000.00	10384.75	10015.40	10014.81	40.35	22.37	344.59	9.40	49.93	1915.98	1872.03	43.59	
12100.00	10385.52	10011.84	10011.32	41.90	22.36	344.73	8.73	49.94	2014.19	1969.65	45.22	
12200.00	10386.29	10008.54	10008.08	43.48	22.35	344.86	8.13	49.94	2112.54	2067.40	46.81	
12300.00	10387.06	10000.00	9999.66	45.08	22.33	345.19	6.67	49.95	2211.04	2165.34	48.38	
12400.00	10387.83	10000.00	9999.66	46.69	22.33	345.19	6.67	49.95	2309.59	2263.25	49.84	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Reference Site: Gaucho Unit 10H
Reference Well: Gaucho Unit 10H
Reference Wellpath:

Date: 2/28/2013 Time: 09:42:41 Page: 4
Co-ordinate(NE) Reference: Well: Gaucho Unit 10H, Grid North
Vertical (TVD) Reference: SITE 3493.0

Db: Sybase

Site: Gaucho Unit 11H
Well: Gaucho Unit 11H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr: Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
12500.00	10388.60	10000.00	9999.66	48.32	22.33	345.19	6.67	49.95	2408.26	2361.26	51.24	
12600.00	10389.37	10000.00	9999.66	49.97	22.33	345.19	6.67	49.95	2507.04	2459.37	52.59	
12700.00	10390.14	10000.00	9999.66	51.62	22.33	345.19	6.67	49.95	2605.91	2557.56	53.90	
12800.00	10390.91	10000.00	9999.66	53.29	22.33	345.19	6.67	49.95	2704.86	2655.83	55.16	
12900.00	10391.68	10000.00	9999.66	54.97	22.33	345.19	6.67	49.95	2803.89	2754.15	56.38	
13000.00	10392.45	9989.15	9988.93	56.66	22.31	345.59	5.04	49.96	2902.84	2852.54	57.71	
13100.00	10393.22	9987.34	9987.14	58.35	22.30	345.66	4.79	49.96	3001.94	2950.95	58.88	
13200.00	10393.99	9985.64	9985.45	60.06	22.30	345.72	4.56	49.96	3101.09	3049.42	60.01	
13300.00	10394.76	9975.00	9974.89	61.77	22.28	346.09	3.28	49.97	3200.39	3148.13	61.24	
13400.00	10395.52	9975.00	9974.89	63.49	22.28	346.09	3.28	49.97	3299.60	3246.62	62.28	
13500.00	10396.29	9975.00	9974.89	65.21	22.28	346.09	3.28	49.97	3398.86	3345.15	63.29	
13600.00	10397.06	9975.00	9974.89	66.94	22.28	346.09	3.28	49.97	3498.16	3443.72	64.26	
13700.00	10397.83	9975.00	9974.89	68.67	22.28	346.09	3.28	49.97	3597.49	3542.32	65.21	
13800.00	10398.60	9975.00	9974.89	70.41	22.28	346.09	3.28	49.97	3696.87	3640.96	66.12	
13900.00	10399.37	9975.00	9974.89	72.16	22.28	346.09	3.28	49.97	3796.28	3739.62	67.00	
14000.00	10400.14	9975.00	9974.89	73.91	22.28	346.09	3.28	49.97	3895.71	3838.31	67.86	
14100.00	10400.91	9975.00	9974.89	75.66	22.28	346.09	3.28	49.97	3995.18	3937.02	68.69	
14200.00	10401.68	9975.00	9974.89	77.42	22.28	346.09	3.28	49.97	4094.67	4035.75	69.50	
14300.00	10402.45	9975.00	9974.89	79.17	22.28	346.09	3.28	49.97	4194.19	4134.51	70.28	
14400.00	10403.22	9975.00	9974.89	80.94	22.28	346.09	3.28	49.97	4293.72	4233.28	71.04	
14500.00	10403.99	9975.00	9974.89	82.70	22.28	346.09	3.28	49.97	4393.28	4332.07	71.77	
14600.00	10404.76	9975.00	9974.89	84.47	22.28	346.09	3.28	49.97	4492.86	4430.88	72.49	
14700.00	10405.53	9975.00	9974.89	86.24	22.28	346.09	3.28	49.97	4592.46	4529.71	73.18	
14800.00	10406.30	9975.00	9974.89	88.02	22.28	346.09	3.28	49.97	4692.07	4628.55	73.86	
14900.00	10407.07	9975.00	9974.89	89.79	22.28	346.09	3.28	49.97	4791.70	4727.40	74.52	
15000.00	10407.84	9975.00	9974.89	91.57	22.28	346.09	3.28	49.97	4891.35	4826.26	75.15	
15100.00	10408.61	9975.00	9974.89	93.35	22.28	346.09	3.28	49.97	4991.01	4925.14	75.78	
15200.00	10409.38	9964.34	9964.29	95.13	22.25	346.44	2.23	49.98	5090.55	5024.14	76.65	
15280.39	10410.00	9963.80	9963.75	96.56	22.25	346.46	2.18	49.98	5170.67	5103.64	77.14	

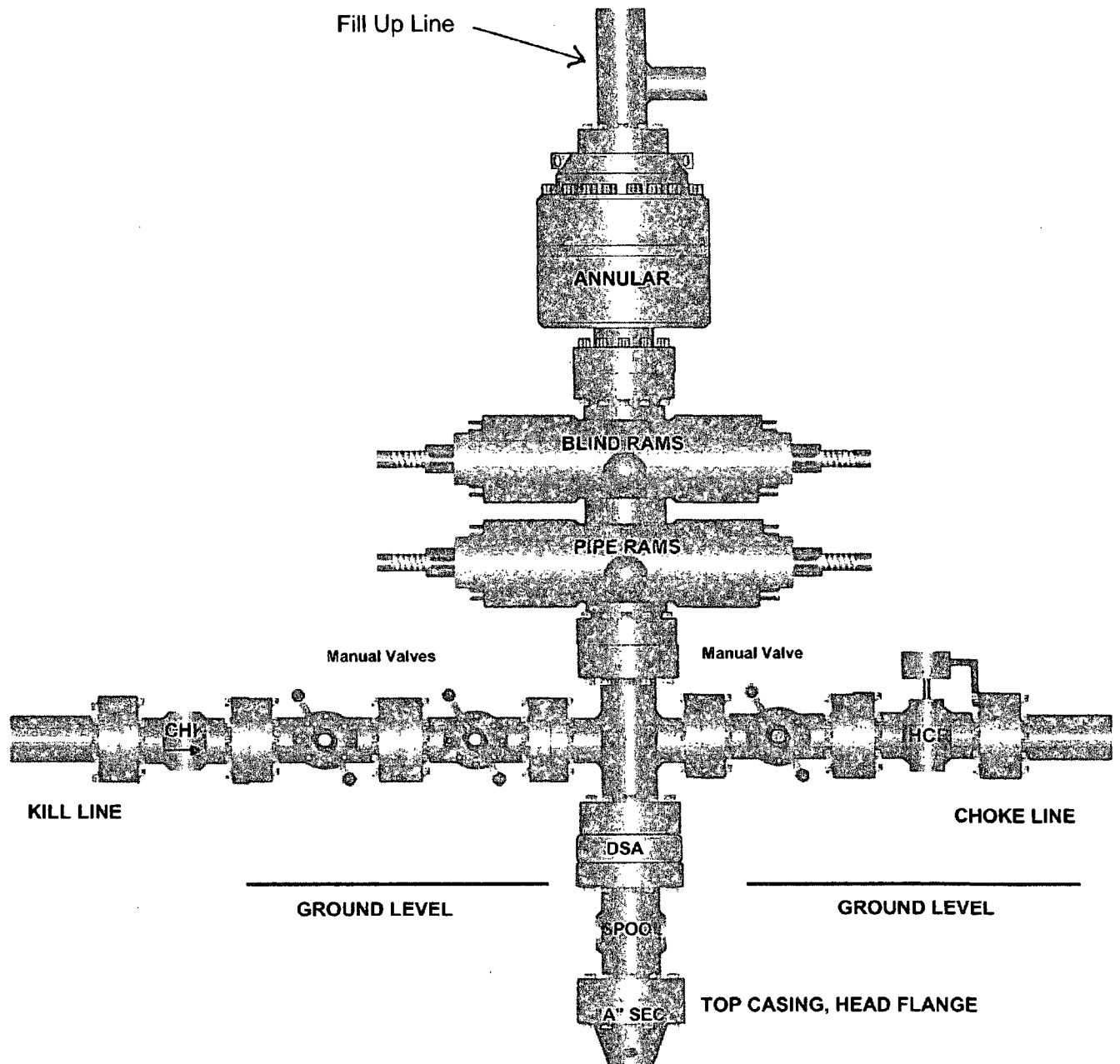
NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP
Gaucho Unit 10H

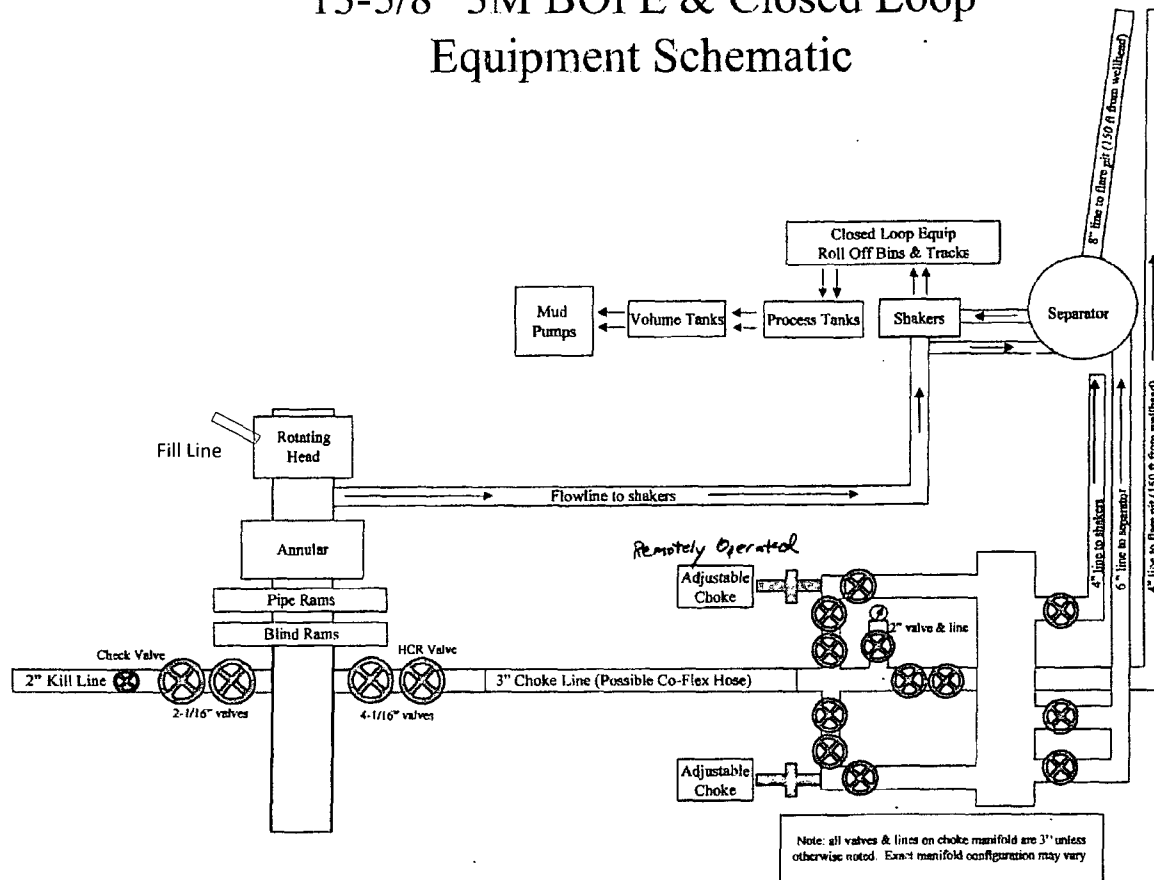
Surface Location: 200 FSL & 1780 FEL, Unit O, Sec 17 T22S R34E, Lea, NM
Bottom Hole Location: 330 FSL & 1780 FEL, Unit O, Sec 20 T22S R34E, Lea, NM

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" x 3,000 psi BOP Stack



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





Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

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

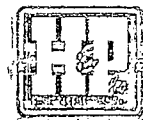
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

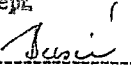
ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

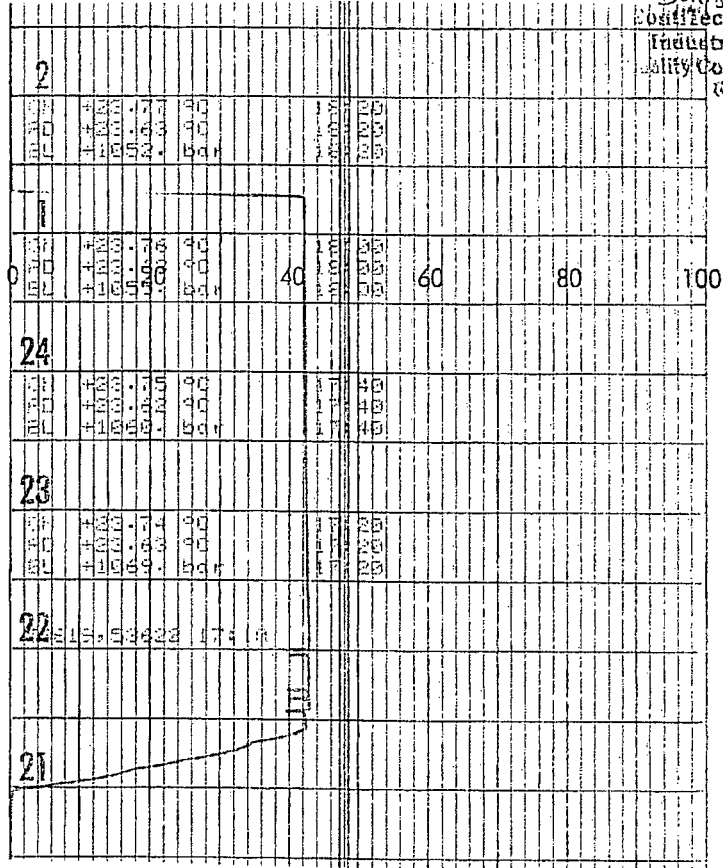
Robin Hodgson
Sales Manager
ContiTech Beattie Corp

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



QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1713	
PURCHASER: ContiTech Beattie Co.				P.O. N°: 002808	
CONTITECH ORDER N°: 426127		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 53622		NOMINAL / ACTUAL LENGTH: 10,67 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 = 25 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" Flange end		5503 2029		AISI 4130 AISI 4130	
				Heat N° N1590P 27566	
INFOCHIP INSTALLED				API Spec 16 C Temperature rate:"B"	
All metal parts are flawless				Hose conform to NACE MR 01-75	
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date: 25. August. 2008		Inspector		Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept.  	

HARTMANN &



Back
Kontech Rubber
Industrial Kft.
Quality Control Dept.
(2)