

HOBBS OCD
Form 3160-3
(March 2012)
JUL 31 2013

OCD Hobbs

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

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM 116574
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator Devon Energy Production Company, L.P.		7. If Unit or CA Agreement, Name and No.
3a. Address 333 W. Sheridan Ave. Oklahoma City, OK 73102	3b. Phone No. (include area code) 405-552-7848	8. Lease Name and Well No. <39911> Bell Lake 24 Fed 3H
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 200 FSL & 1980 FEL Unit O, Sec 24, 24S-32E PP: 200 FSL & 1980 FEL At proposed prod. zone 330 FNL & 1980 FEL Unit B, Sec 24, 24S-32E		9. API Well No. 30-025-41307
14. Distance in miles and direction from nearest town or post office* Approximately 25 miles E of Malaga, NM		10. Field and Pool or Exploration WC-25 G-01 S-24 S-28-32E Lower
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 680	11. Sec., T. R. M. or Blk. and Survey of Area Sec 24, T24S-R32E
17. Spacing Unit dedicated to this well 160	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. see attached map	12. County or Parish Lea County
19. Proposed Depth MD: 15,623' TVD: 11,075'	20. BLM/BIA Bond No. on file CO-1104; NMB-000801	13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3555' GL	22. Approximate date work will start*	23. Estimated duration 45 days

24. Attachments To be pad drilled w/ Bell Lake 24 Fed 2H and 4H

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature D. R.	Name (Printed/Typed) David Cook	Date 01/16/2013
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Title
Regulatory Specialist

Approved by (Signature) /s/George MacDonell	Name (Printed/Typed) /s/George MacDonell	Date JUN 25 2013
--	---	----------------------------

Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

La
08/02/13

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

AUG 06 2013

dm

COPY

DRILLING PROGRAM

Devon Energy Production Company, LP
Bell Lake 24 Fed 3H

Surface Location: 200 FSL & 1980 FEL, Unit O, Sec 24 T24S R32E, Lea, NM
Bottom Hole Location: 330 FNL & 1980 FEL, Unit B, Sec 24 T24S R32E, 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	200'	
b. Rustler	1,078'	
c. Top of Salt	1,410'	
d. Base of Salt	4,825'	
e. Delaware	5,025'	Oil & Gas
f. Bone Spring	9,025'	Oil & Gas
g. 1 st Bone Spring Sand	10,105'	Oil & Gas
h. 2 nd Bone Spring Sand	10,611'	Oil & Gas

Total Depth 15,623' MD 11,075' TVD

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

	<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>
See COR	17 1/2"	0'-1,150'	13 3/8"	0'-1,150'	48#	ST&C	H-40
	12 1/4"	1,150'-4,900'	9 5/8"	0'-4,900'	40#	LT&C	HCK-55
	8 3/4"	4,900'-10,450'	5 1/2"	0'-10,450'	17#	LT&C	HCP-110
	8 3/4"	10,450'-15,623'	5 1/2"	10,450'-15,623'	17#	BT&C	HCP-110

Design Factors:

<u>Casing Size</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
13-3/8", 48#, H-40, ST&C	1.43	3.21	5.83
9-5/8", 40#, HCK-55, LT&C	1.66	1.38	3.21
5-1/2" 17# HCP-110 LTC	1.44	2.05	1.68
5-1/2" 17# HCP-110 BTC	1.53	2.19	6.40

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

- 13 3/8" Surface **Lead:** 520 ft 675 sacks 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 sacks 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 sacks (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 sacks 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 **1st Stage**
Lead: 650 sacks (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:** 1335 sacks (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
DV TOOL at 6000 ft
- 2nd Stage**
Lead: 130 sacks Class C Cement + 3% bwoc Econolite + 0.125 lbs/sack Poly-E-Flake + 82.4% Fresh Water, 11.4 ppg, Yield: 2.87 cf/sk
- Tail:** 250 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Fresh Water, 14.8 ppg, Yield: 1.33cf/sk
- TOC @ 4200 ft**

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

5. 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.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc.</u>	<u>Fluid Loss</u>	<u>Type System</u>
0 – 1,150	8.4 – 9.0	30 – 34	N/C	FW
1,150 – 4,900	9.8 – 10.0	28 – 32	N/C	Brine
4,900 -15,623	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.

7. Auxiliary Well Control and Monitoring Equipment:

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

8. Logging, Coring, and Testing Program:

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 ½” production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

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 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 4,850 psi and Estimated BHT 165°. No H₂S is anticipated to be encountered.

10. Anticipated Starting Date and Duration of Operations:

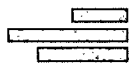
- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 25 days. If production casing is run then an additional 30 days will 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

BELL LAKE 24 FED 3H

LEA COUNTY, NM

WELL FILE: **PLAN 1**

JANUARY 2, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com

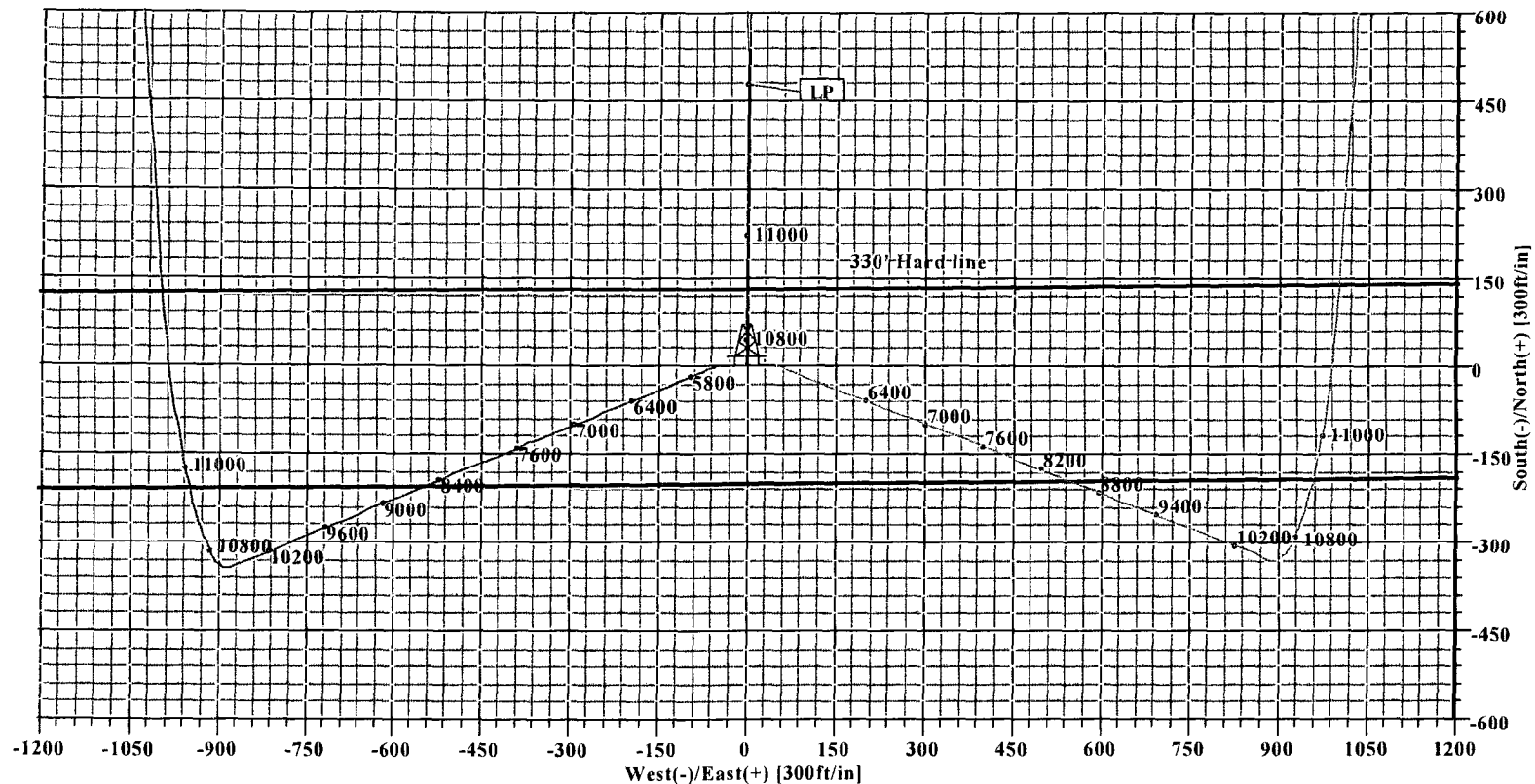


Bell Lake 24 Fed PAD
Lea County, New Mexico

LEGEND	
	Bell Lake 24 Fed 2H (BL 24 Fed 2H)
	Bell Lake 24 Fed 4H (BL 24 Fed 4H)
	BL 24 Fed 3H
	Plan #1



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Plan: Plan #1 (Bell Lake 24 Fed 3H/BL 24 Fed 3H)

Created By: Russell W. Joyner

Date: 1/4/2013



Bell Lake 24 Fed 3H
Lea County, New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.67	0.00	0.00	0.00	0.00	0.00	0.00	
2	10597.54	0.00	359.67	10597.54	0.00	0.00	0.00	0.00	0.00	
3	11347.54	90.00	359.67	11075.00	477.46	-2.72	12.00	359.67	477.46	
4	15623.34	90.00	359.67	11075.00	4753.19	-27.09	0.00	0.00	4753.27	PBHL 3H

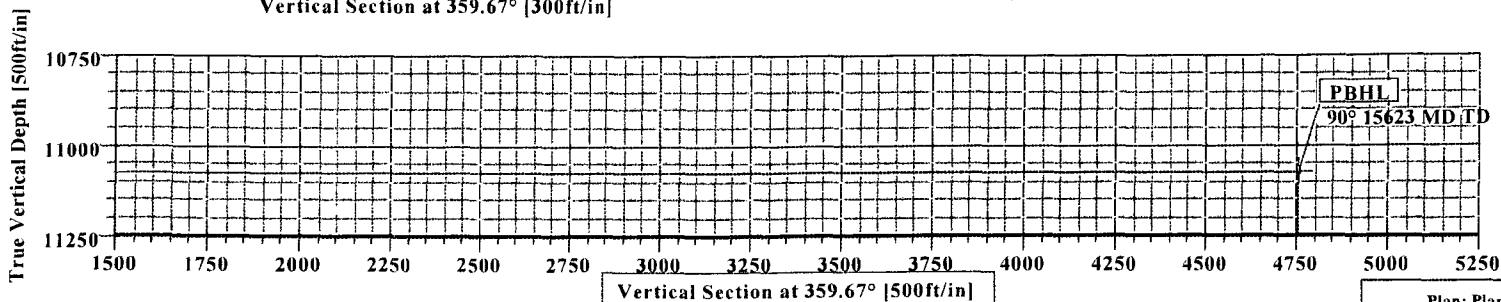
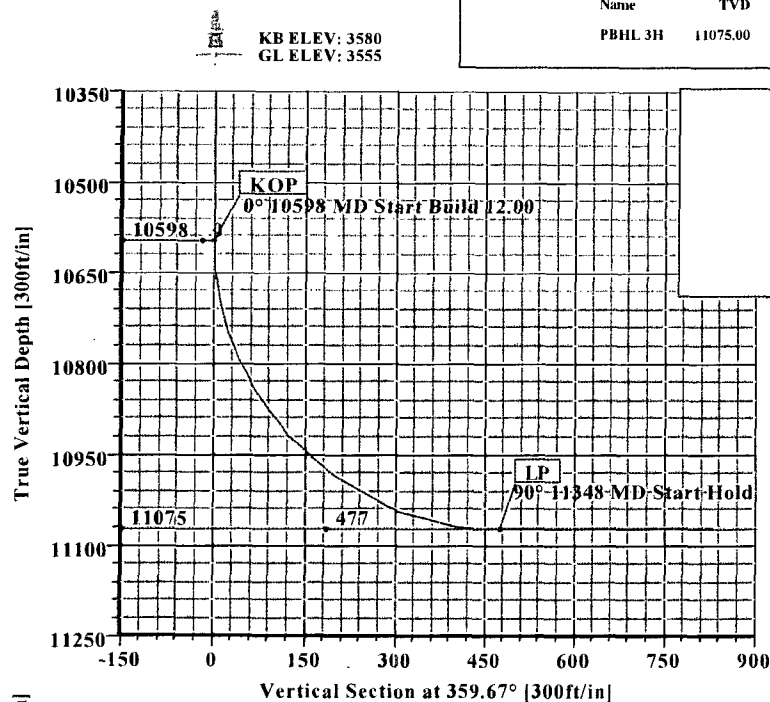
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Blake Lake 24 Fed 3H	-0.44	-50.03	435923.78	760066.04	32°11'47.229N	103°37'34.432W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL 3H	11075.00	4753.19	-27.09	440676.97	760038.95	Point

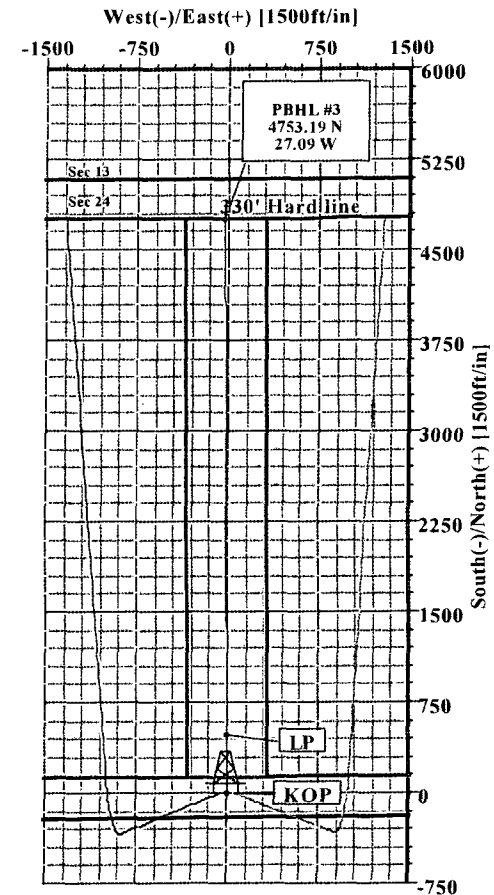
SITE DETAILS
Bell Lake 24 Fed PAD
Site Centre Northing: 435924.22
Easting: 760116.07
Ground Level: 3554.00
Positional Uncertainty: 0.00
Convergence: 0.38



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LEGEND	
	Bell Lake 24 Fed 2H (BL 24 Fed 2H)
	Bell Lake 24 Fed 4H (BL 24 Fed 4H)
	BL 24 Fed 3H
	Plan #1





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Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Bell Lake 24 Fed PAD
Well: Bell Lake 24 Fed 3H
Wellpath: BL 24 Fed 3H

Date: 1/4/2013 Time: 11:17:14 Page: 1
Co-ordinate(NE) Reference: Well: Bell Lake 24 Fed 3H, Grid North
Vertical (TVD) Reference: #3 3580.0
Section (VS) Reference: Well (0.00N,0.00E,359.67Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1

Date Composed: 1/2/2013

Principal: Yes

Version: 1
Tied-to: From Surface

Site: Bell Lake 24 Fed PAD

Site Position: Northing: 435924.22 ft Latitude: 32 11 47.230 N
From: Map Easting: 760116.07 ft Longitude: 103 37 33.850 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3554.00 ft Grid Convergence: 0.38 deg

Well: Bell Lake 24 Fed 3H

Slot Name:

Well Position: +N/-S -0.44 ft Northing: 435923.78 ft Latitude: 32 11 47.229 N
+E/-W -50.03 ft Easting: 760066.04 ft Longitude: 103 37 34.432 W
Position Uncertainty: 0.00 ft

Wellpath: BL 24 Fed 3H

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.31 deg
Mag Dip Angle: 60.09 deg
Direction
deg

Current Datum: #3 Height 3580.00 ft
Magnetic Data: 11/15/2013
Field Strength: 48377 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft

0.00 0.00 0.00 359.67

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	359.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10597.54	0.00	359.67	10597.54	0.00	0.00	0.00	0.00	0.00	0.00	
11347.54	90.00	359.67	11075.00	477.46	-2.72	12.00	12.00	0.00	359.67	
15623.34	90.00	359.67	11075.00	4753.19	-27.09	0.00	0.00	0.00	0.00	PBHL 3H

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
10500.00	0.00	359.67	10500.00	0.00	0.00	0.00	0.00	435923.78	760066.04	
10597.54	0.00	359.67	10597.54	0.00	0.00	0.00	0.00	435923.78	760066.04	KOP
10600.00	0.30	359.67	10600.00	0.01	0.00	0.01	12.00	435923.79	760066.04	
10625.00	3.30	359.67	10624.98	0.79	0.00	0.79	12.00	435924.57	760066.04	
10650.00	6.30	359.67	10649.89	2.88	-0.02	2.88	12.00	435926.66	760066.02	
10675.00	9.30	359.67	10674.66	6.27	-0.04	6.27	12.00	435930.05	760066.00	
10700.00	12.30	359.67	10699.22	10.95	-0.06	10.95	12.00	435934.73	760065.98	
10725.00	15.30	359.67	10723.49	16.91	-0.10	16.91	12.00	435940.69	760065.94	
10750.00	18.30	359.67	10747.42	24.14	-0.14	24.14	12.00	435947.92	760065.90	
10775.00	21.30	359.67	10770.94	32.60	-0.19	32.60	12.00	435956.38	760065.85	
10800.00	24.30	359.67	10793.99	42.29	-0.24	42.29	12.00	435966.07	760065.80	
10825.00	27.30	359.67	10816.49	53.16	-0.30	53.17	12.00	435976.94	760065.74	
10850.00	30.30	359.67	10838.40	65.21	-0.37	65.21	12.00	435988.99	760065.67	
10875.00	33.30	359.67	10859.64	78.38	-0.45	78.38	12.00	436002.16	760065.59	
10900.00	36.30	359.67	10880.17	92.64	-0.53	92.64	12.00	436016.42	760065.51	
10925.00	39.30	359.67	10899.93	107.96	-0.62	107.96	12.00	436031.74	760065.42	
10950.00	42.30	359.67	10918.85	124.29	-0.71	124.29	12.00	436048.07	760065.33	
10975.00	45.30	359.67	10936.89	141.59	-0.81	141.59	12.00	436065.37	760065.23	
11000.00	48.30	359.67	10954.01	159.81	-0.91	159.81	12.00	436083.59	760065.13	
11025.00	51.30	359.67	10970.14	178.90	-1.02	178.91	12.00	436102.68	760065.02	
11050.00	54.30	359.67	10985.26	198.81	-1.13	198.82	12.00	436122.59	760064.91	
11075.00	57.30	359.67	10999.31	219.49	-1.25	219.49	12.00	436143.27	760064.79	
11100.00	60.30	359.67	11012.26	240.87	-1.37	240.87	12.00	436164.65	760064.67	



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Wft Plan Report X Y's.

**Weatherford®**

Company: Devon Energy
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Well: Bell Lake 24 Fed 3H
Wellpath: BL 24 Fed 3H

Date: 1/4/2013 Time: 11:17:14 Page: 2
Co-ordinate(NE) Reference: Well: Bell Lake 24 Fed 3H, Grid North
Vertical (TVD) Reference: #3 3580.0
Section (VS) Reference: Well (0.00N,0.00E,359.67Azi)
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
11125.00	63.30	359.67	11024.07	262.90	-1.50	262.90	12.00	436186.68	760064.54	
11150.00	66.30	359.67	11034.72	285.51	-1.63	285.52	12.00	436209.29	760064.41	
11175.00	69.30	359.67	11044.16	308.66	-1.76	308.66	12.00	436232.44	760064.28	
11200.00	72.30	359.67	11052.39	332.26	-1.89	332.27	12.00	436256.04	760064.15	
11225.00	75.30	359.67	11059.36	356.26	-2.03	356.27	12.00	436280.04	760064.01	
11250.00	78.30	359.67	11065.07	380.60	-2.17	380.61	12.00	436304.38	760063.87	
11275.00	81.30	359.67	11069.50	405.20	-2.31	405.21	12.00	436328.98	760063.73	
11300.00	84.30	359.67	11072.64	430.00	-2.45	430.01	12.00	436353.78	760063.59	
11325.00	87.30	359.67	11074.47	454.93	-2.59	454.94	12.00	436378.71	760063.45	
11347.54	90.00	359.67	11075.00	477.46	-2.72	477.46	12.00	436401.24	760063.32	LP
11400.00	90.00	359.67	11075.00	529.92	-3.02	529.93	0.00	436453.70	760063.02	
11500.00	90.00	359.67	11075.00	629.92	-3.59	629.93	0.00	436553.70	760062.45	
11600.00	90.00	359.67	11075.00	729.92	-4.16	729.93	0.00	436653.70	760061.88	
11700.00	90.00	359.67	11075.00	829.92	-4.73	829.93	0.00	436753.70	760061.31	
11800.00	90.00	359.67	11075.00	929.91	-5.30	929.93	0.00	436853.69	760060.74	
11900.00	90.00	359.67	11075.00	1029.91	-5.87	1029.93	0.00	436953.69	760060.17	
12000.00	90.00	359.67	11075.00	1129.91	-6.44	1129.93	0.00	437053.69	760059.60	
12100.00	90.00	359.67	11075.00	1229.91	-7.01	1229.93	0.00	437153.69	760059.03	
12200.00	90.00	359.67	11075.00	1329.91	-7.58	1329.93	0.00	437253.69	760058.46	
12300.00	90.00	359.67	11075.00	1429.91	-8.15	1429.93	0.00	437353.69	760057.89	
12400.00	90.00	359.67	11075.00	1529.90	-8.72	1529.93	0.00	437453.68	760057.32	
12500.00	90.00	359.67	11075.00	1629.90	-9.29	1629.93	0.00	437553.68	760056.75	
12600.00	90.00	359.67	11075.00	1729.90	-9.86	1729.93	0.00	437653.68	760056.18	
12700.00	90.00	359.67	11075.00	1829.90	-10.43	1829.93	0.00	437753.68	760055.61	
12800.00	90.00	359.67	11075.00	1929.90	-11.00	1929.93	0.00	437853.68	760055.04	
12900.00	90.00	359.67	11075.00	2029.90	-11.57	2029.93	0.00	437953.68	760054.47	
13000.00	90.00	359.67	11075.00	2129.90	-12.14	2129.93	0.00	438053.68	760053.90	
13100.00	90.00	359.67	11075.00	2229.89	-12.71	2229.93	0.00	438153.67	760053.33	
13200.00	90.00	359.67	11075.00	2329.89	-13.28	2329.93	0.00	438253.67	760052.76	
13300.00	90.00	359.67	11075.00	2429.89	-13.85	2429.93	0.00	438353.67	760052.19	
13400.00	90.00	359.67	11075.00	2529.89	-14.42	2529.93	0.00	438453.67	760051.62	
13500.00	90.00	359.67	11075.00	2629.89	-14.99	2629.93	0.00	438553.67	760051.05	
13600.00	90.00	359.67	11075.00	2729.89	-15.56	2729.93	0.00	438653.67	760050.48	
13700.00	90.00	359.67	11075.00	2829.88	-16.13	2829.93	0.00	438753.66	760049.91	
13800.00	90.00	359.67	11075.00	2929.88	-16.70	2929.93	0.00	438853.66	760049.34	
13900.00	90.00	359.67	11075.00	3029.88	-17.27	3029.93	0.00	438953.66	760048.77	
14000.00	90.00	359.67	11075.00	3129.88	-17.84	3129.93	0.00	439053.66	760048.20	
14100.00	90.00	359.67	11075.00	3229.88	-18.41	3229.93	0.00	439153.66	760047.63	
14200.00	90.00	359.67	11075.00	3329.88	-18.98	3329.93	0.00	439253.66	760047.06	
14300.00	90.00	359.67	11075.00	3429.87	-19.55	3429.93	0.00	439353.65	760046.49	
14400.00	90.00	359.67	11075.00	3529.87	-20.12	3529.93	0.00	439453.65	760045.92	
14500.00	90.00	359.67	11075.00	3629.87	-20.69	3629.93	0.00	439553.65	760045.35	
14600.00	90.00	359.67	11075.00	3729.87	-21.26	3729.93	0.00	439653.65	760044.78	
14700.00	90.00	359.67	11075.00	3829.87	-21.83	3829.93	0.00	439753.65	760044.21	
14800.00	90.00	359.67	11075.00	3929.87	-22.40	3929.93	0.00	439853.65	760043.64	
14900.00	90.00	359.67	11075.00	4029.86	-22.97	4029.93	0.00	439953.64	760043.07	
15000.00	90.00	359.67	11075.00	4129.86	-23.54	4129.93	0.00	440053.64	760042.50	
15100.00	90.00	359.67	11075.00	4229.86	-24.11	4229.93	0.00	440153.64	760041.93	
15200.00	90.00	359.67	11075.00	4329.86	-24.68	4329.93	0.00	440253.64	760041.36	
15300.00	90.00	359.67	11075.00	4429.86	-25.25	4429.93	0.00	440353.64	760040.79	
15400.00	90.00	359.67	11075.00	4529.86	-25.82	4529.93	0.00	440453.64	760040.22	
15500.00	90.00	359.67	11075.00	4629.85	-26.39	4629.93	0.00	440553.63	760039.65	



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Lea County, New Mexico (NAD 83)
Site: Bell Lake 24 Fed PAD
Well: Bell Lake 24 Fed 3H
Wellpath: BL 24 Fed 3H

Date: 1/4/2013 **Time:** 11:17:14 **Page:** 3
Co-ordinate(NE) Reference: Well: Bell Lake 24 Fed 3H, Grid North
Vertical (TVD) Reference: #3 3580.0
Section (VS) Reference: Well (0.00N,0.00E,359.67Azi)
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
15600.00	90.00	359.67	11075.00	4729.85	-26.96	4729.93	0.00	440653.63	760039.08	
15623.34	90.00	359.67	11075.00	4753.19	-27.09	4753.27	0.00	440676.97	760038.95	PBHL 3H

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<---- Longitude ---->				
							Deg	Min	Sec	Deg	Min	Sec		
PBHL 3H		11075.00	4753.19	-27.09	440676.97	760038.95	32	12	34.265	N	103	37	34.383	W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
10597.54	10597.54	KOP
11347.54	11075.00	LP
15623.33	11075.00	PBHL

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

GeoDec v5.03

Report Date: January 02, 2013
Job Number: _____
Customer: Devon Energy
Well Name: Bell Lake 24 Fed 3H
API Number: _____
Rig Name: _____
Location: Lea County, NM
Block: _____
Engineer: Patrick Rudolph

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 435923.780 USFT	Latitude 32.1964547 DEG
East/West 760066.040 USFT	Longitude -103.6262262 DEG
Grid Convergence: .38°	
Total Correction: +7.04°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.19645° N	32° 11 min 47.237 sec
Longitude =	103.62623° W	103° 37 min 34.414 sec

Magnetic Declination =	7.42°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6508
Local Field Strength =	48336 nT	Magnetic Vector X = 23935 nT
Magnetic Dip =	60.04°	Magnetic Vector Y = 3118 nT
Magnetic Model =	bggm2012	Magnetic Vector Z = 41879 nT
Spud Date =	Nov 15, 2013	Magnetic Vector H = 24137 nT

Signed: _____

Date: _____

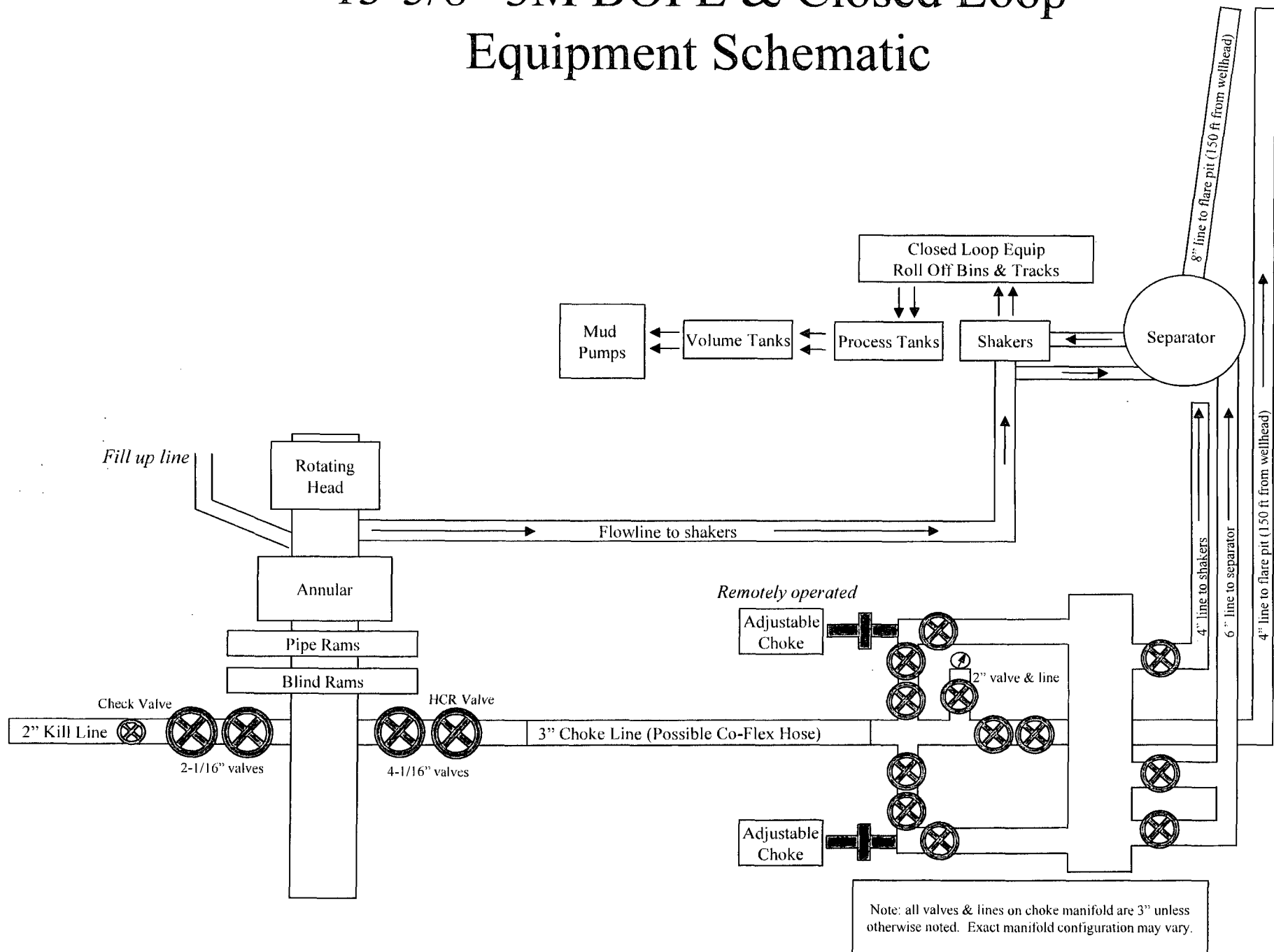
NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP
Bell Lake 24 Fed 3H

Surface Location: 200 FSL & 1980 FEL, Unit O, Sec 24 T24S R32E, Lea, NM
Bottom Hole Location: 330 FNL & 1980 FEL, Unit B, Sec 24 T24S R32E, 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" 3M BOPE & Closed Loop Equipment Schematic



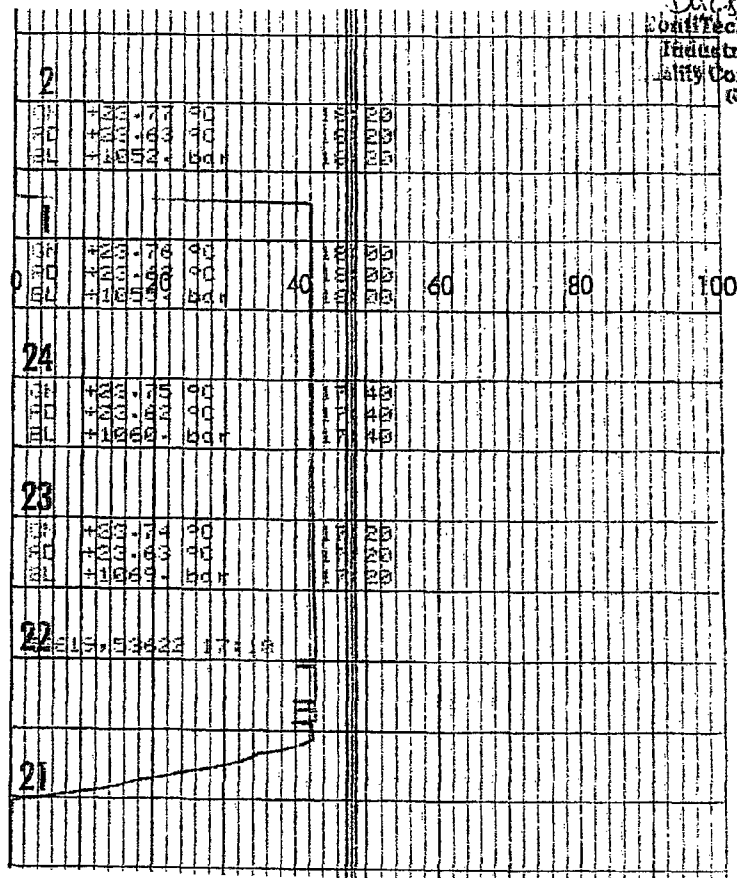
Continental CONTITECH

Quality Document

Bank data

H&P 416

HARTMANN &



Jack
 Contitech Rubber
 Industrial Kft.
 Quality Control Dept.
 (2)



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

