

Form 3160-3
(March 2012)

OCD Hobbs

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 02 2015

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC0063798
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. (6137)		7. If Unit or CA Agreement, Name and No.
3a. Address 333 W. Sheridan Oklahoma City, OK 73102		8. Lease Name and Well No. (315634) BOOMSLANG 14 FED 1H
3b. Phone No. (include area code) 405.552.7848		9. API Well No. 30-025-42920
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 200 FNL & 1980 FEL, Unit B PP: 800 FNL & 1980 FEL At proposed prod. zone 330 FSL & 1980 FEL, Unit O		10. Field and Pool, or Exploratory Red Hills; Bone Spring, North (96434)
14. Distance in miles and direction from nearest town or post office* Approximately 26 miles NW of Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec 14, T24S, R33E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) See attached map	16. No. of acres in lease 2,480 ac	17. Spacing Unit dedicated to this well 160 ac
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. See attached map	19. Proposed Depth TVD: 11,171'; MD: 15,672'	20. BLM/BIA Bond No. on file CO-1104; NMB-000801
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3,601.6' GL	22. Approximate date work will start* 08/01/2015	23. Estimated duration 45 Days

UNORTHODOX
LOCATION

24. Attachments To Be Pad Drilled With Boomslang 14 Fed 4H

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 01/12/2015
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Title
Regulatory Compliance Professional

Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date OCT 29 2015
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Title FIELD MANAGER	Office BLM-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)

Witness Surface Casing

K2
11/04/15

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

NOV 05 2015

NOV 02 2015

Devon Energy, Boomslang 14 Fed 1H

RECEIVED

1. Geologic Formations

TVD of target	11,171'	Pilot hole depth	N/A
MD at TD:	15,672'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	1,290	Barren	
Top of Salt	1,770	Barren	
Base of Salt	5,090	Barren	
Delaware	5,190	Barren	
Cherry Canyon	6,060	Oil / Gas	
Brushy Canyon	7,640	Oil / Gas	
Bone Spring Lime	9,070	Oil / Gas	
Leonard	9,245	Oil / Gas	
1 st Bone Spring Sand	10,065	Oil / Gas	
2 nd Bone Spring Sand	10,640	Oil / Gas	

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Boomslang 14 Fed 1H

2. Casing Program

See COA

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1,315' / 1,400'	13.375"	48	H-40	STC	1.31	2.94	8.57
12.25"	0	5,190'	9.625"	40	HCK-55	BTC	1.567	1.46	4.46
8.75"	0	15,672'	5.5"	17	P-110	BTC	1.64	2.04	2.99
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy, Boomslang 14 Fed 1H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
Surf.	610	12.9	9.81	1.85	15	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 3% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	560	14.8	6.34	1.34	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake + 1% BWOC Calcium Chloride
Inter.	1120	12.9	9.81	1.85	15	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	1.33	6.32	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5.5" Prod Single Stage Option	530	11.9	12.89	2.26	n/a	1 st Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	330	12.5	10.86	1.96	30	2 nd Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1340	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
5.5" Prod Two Stage Option	860	12.5	10.86	1.96	30	1 st Stage Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1340	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool at 5290ft					
	40	11	14.81	2.55	22	2 nd stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	70	14.8	6.32	1.33	6	2 nd stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
7 x 5.5" Combo Prod	350	10.4	16.8	3.17	25	Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	1340	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

not
on
option

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Devon Energy, Boomslang 14 Fed 1H

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	75%
5.5" Production Single Stage	4690'	25%
5.5" Production Two Stage	1 st Stage = 5290' / 2 nd Stage = 4690'	25%
7 x 5.5" Combo Prod.	4690'	25%

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Devon Energy, Boomslang 14 Fed 1H

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi. - Wellhead will be installed by FMC's representatives. - If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. - FMC representative will install the test plug for the initial BOP test. - FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. - If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. - Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. - Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the FMC Uni-head.

See
COA

See
COA

Devon Energy, Boomslang 14 Fed 1H

	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 See attached schematic.
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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	1,315' 1,400'	FW Gel	8.6-8.8	28-34	N/C
1,315'	5,190'	Saturated Brine	10.0-10.2	28-34	N/C
5,190'	15,672'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
x	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
X CBL	Production casing
X Mud log	Intermediate shoe to TD
PEX	

Devon Energy, Boomslang 14 Fed 1H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	2945 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

see COA
Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

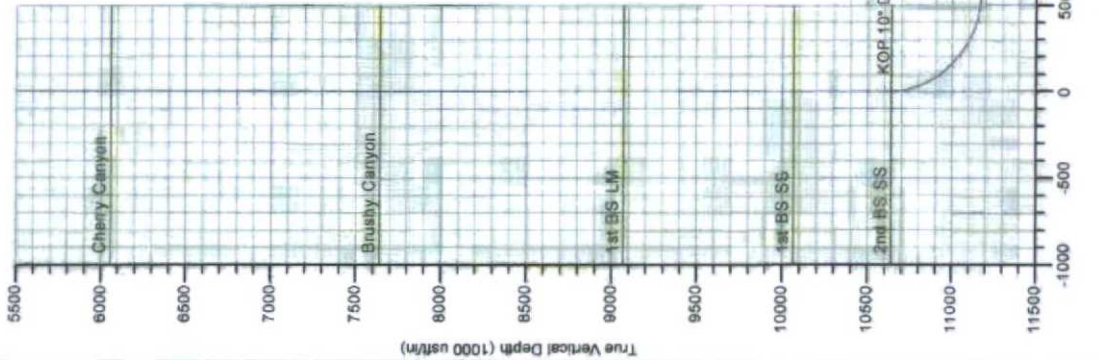
☐ Other, describe

DEVON ENERGY

Project: Lea County, NM (NAD-83)
 Site: Boomslang 14 Fed
 Well: 1H
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.42°
 Magnetic North: 3.39°
 Magnetic Field
 Strength: 48227.5nT
 Dip Angle: 80.10°
 Date: 12/4/2014
 Model: BOGM2014



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSecl	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP 10° DLS
2	10598.07	0.00	0.00	10598.07	0.00	0.00	0.00	0.00	0.00	LP
3	11503.70	90.56	179.54	11171.00	-578.57	4.66	10.00	179.54	578.59	TD
4	15672.67	90.56	179.54	11130.00	-4747.41	36.22	0.00	0.00	4747.56	

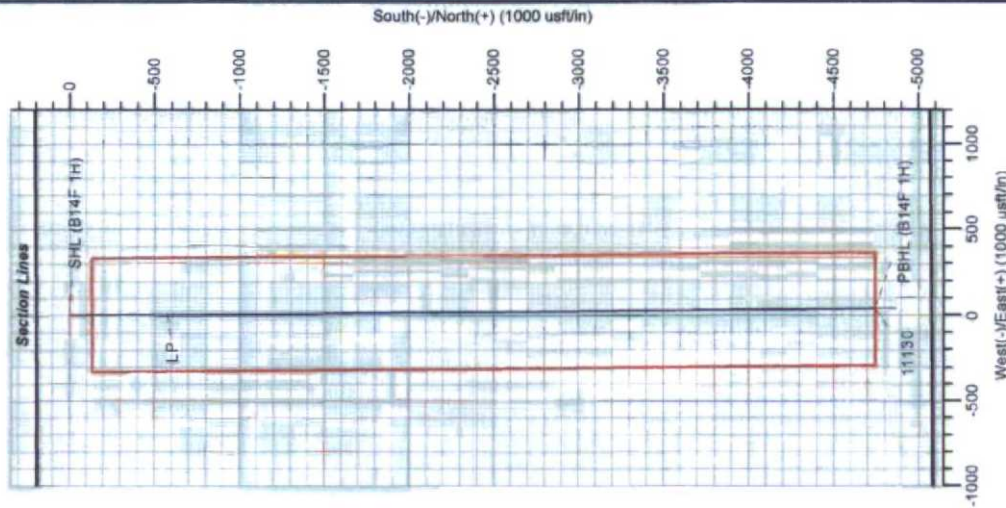
DESIGN TARGET DETAILS

Name	+N/-S	TVD	+E/-W	Northing	Easting	Latitude	Longitude
SHL (B14F 1H)	0.00	0.00	0.00	446243.13	786353.47	32° 13' 27.535 N	103° 32' 27.617 W
PBHL (B14F 1H)	11130.00	0.00	38.22	441495.72	786391.59	32° 12' 40.556 N	103° 32' 27.579 W

PROJECT DETAILS: Lea County, NM (NAD-83)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level



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

Plan Plan #1 (1HCH)
 Created By: Brady Deaver
 Date: 13.26 December 04 2014
 Approved: _____
 Date: _____



LEAM
Drilling Systems, Inc.

DEVON ENERGY

Lea County, NM (NAD-83)

Boomslang 14 Fed

1H

OH

Plan: Plan #1

Standard Planning Report

04 December, 2014



devon



LEAM Drilling Systems LLC

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Site:	Boomsiang 14 Fed	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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

Site		Boomsiang 14 Fed			
Site Position:		Northing:	446,243.13 usft	Latitude:	32° 13' 27.535 N
From:	Map	Easting:	786,353.47 usft	Longitude:	103° 32' 27.617 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	1H, 2nd BS SS					
Well Position	+N/-S	0.00 usft	Northing:	446,243.13 usft	Latitude:	32° 13' 27.535 N
	+E/-W	0.00 usft	Easting:	786,353.47 usft	Longitude:	103° 32' 27.617 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,626.60 usft	Ground Level:	3,601.60 usft	

Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	12/4/2014	7.31	60.10	48,227

Design	Plan #1
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Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.54

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,598.07	0.00	0.00	10,598.07	0.00	0.00	0.00	0.00	0.00	0.00	
11,503.70	90.56	179.54	11,171.00	-578.57	4.66	10.00	10.00	19.82	179.54	
15,872.87	90.56	179.54	11,130.00	-4,747.41	38.22	0.00	0.00	0.00	0.00	PBHL (B14F 1H)



LEAM Drilling Systems LLC Planning Report



Database: EDM 5000.1 Single User Db
Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Site: Boomslang 14 Fed
Well: 1H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well 1H
TVD Reference: 3601.6' GL + 25' RKB @ 3626.60usft
MD Reference: 3601.6' GL + 25' RKB @ 3626.60usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (B14F 1H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,290.00	0.00	0.00	1,290.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,770.00	0.00	0.00	1,770.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00



LEAM Drilling Systems LLC Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Site:	Boomslang 14 Fed	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,090.00	0.00	0.00	5,090.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,190.00	0.00	0.00	5,190.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,080.00	0.00	0.00	6,080.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,640.00	0.00	0.00	7,640.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,070.00	0.00	0.00	9,070.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS LM									
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00



LEAM Drilling Systems LLC
Planning Report



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Company:	DEVON ENERGY	TVD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Site:	Boomsiang 14 Fed	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,065.00	0.00	0.00	10,065.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS SS									
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00
10,500.00	0.00	0.00	10,500.00	0.00	0.00	0.00	0.00	0.00	0.00
10,598.07	0.00	0.00	10,598.07	0.00	0.00	0.00	0.00	0.00	0.00
KOP 10° DLS									
10,600.00	0.19	179.54	10,600.00	0.00	0.00	0.00	10.00	10.00	0.00
10,640.04	4.20	179.54	10,640.00	-1.54	0.01	1.54	10.00	10.00	0.00
2nd BS SS									
10,650.00	5.19	179.54	10,649.93	-2.35	0.02	2.35	10.00	10.00	0.00
10,700.00	10.19	179.54	10,699.46	-9.04	0.07	9.04	10.00	10.00	0.00
10,750.00	15.19	179.54	10,748.23	-20.03	0.16	20.03	10.00	10.00	0.00
10,800.00	20.19	179.54	10,795.85	-35.22	0.28	35.22	10.00	10.00	0.00
10,850.00	25.19	179.54	10,841.96	-54.50	0.44	54.50	10.00	10.00	0.00
10,900.00	30.19	179.54	10,886.22	-77.73	0.63	77.73	10.00	10.00	0.00
10,950.00	35.19	179.54	10,928.28	-104.72	0.84	104.73	10.00	10.00	0.00
11,000.00	40.19	179.54	10,967.84	-135.29	1.09	135.29	10.00	10.00	0.00
11,050.00	45.19	179.54	11,004.58	-169.18	1.36	169.18	10.00	10.00	0.00
11,100.00	50.19	179.54	11,038.22	-206.14	1.66	206.15	10.00	10.00	0.00
11,150.00	55.19	179.54	11,068.51	-245.90	1.98	245.91	10.00	10.00	0.00
11,200.00	60.19	179.54	11,095.23	-288.14	2.32	288.15	10.00	10.00	0.00
11,250.00	65.19	179.54	11,118.16	-332.56	2.68	332.57	10.00	10.00	0.00
11,300.00	70.19	179.54	11,137.13	-378.80	3.05	378.81	10.00	10.00	0.00
11,350.00	75.19	179.54	11,152.00	-426.52	3.43	426.53	10.00	10.00	0.00
11,400.00	80.19	179.54	11,162.66	-475.35	3.83	475.37	10.00	10.00	0.00
11,450.00	85.19	179.54	11,169.01	-524.93	4.23	524.94	10.00	10.00	0.00
11,503.70	90.56	179.54	11,171.00	-578.57	4.66	578.59	10.00	10.00	0.00
LP									
11,600.00	90.56	179.54	11,170.05	-674.86	5.43	674.88	0.00	0.00	0.00
11,700.00	90.56	179.54	11,169.07	-774.85	6.24	774.88	0.00	0.00	0.00
11,800.00	90.56	179.54	11,168.09	-874.85	7.04	874.87	0.00	0.00	0.00
11,900.00	90.56	179.54	11,167.10	-974.84	7.85	974.87	0.00	0.00	0.00
12,000.00	90.56	179.54	11,166.12	-1,074.83	8.65	1,074.86	0.00	0.00	0.00
12,100.00	90.56	179.54	11,165.14	-1,174.82	9.46	1,174.86	0.00	0.00	0.00
12,200.00	90.56	179.54	11,164.15	-1,274.81	10.26	1,274.85	0.00	0.00	0.00
12,300.00	90.56	179.54	11,163.17	-1,374.80	11.07	1,374.85	0.00	0.00	0.00
12,400.00	90.56	179.54	11,162.19	-1,474.80	11.87	1,474.84	0.00	0.00	0.00
12,500.00	90.56	179.54	11,161.20	-1,574.79	12.68	1,574.84	0.00	0.00	0.00
12,600.00	90.56	179.54	11,160.22	-1,674.78	13.48	1,674.83	0.00	0.00	0.00
12,700.00	90.56	179.54	11,159.24	-1,774.77	14.29	1,774.83	0.00	0.00	0.00
12,800.00	90.56	179.54	11,158.25	-1,874.76	15.09	1,874.83	0.00	0.00	0.00



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Company:	DEVON ENERGY	TVD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Site:	Boomsiang 14 Fed	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,900.00	90.56	179.54	11,157.27	-1,974.76	15.90	1,974.82	0.00	0.00	0.00
13,000.00	90.56	179.54	11,156.29	-2,074.75	16.70	2,074.82	0.00	0.00	0.00
13,100.00	90.56	179.54	11,155.30	-2,174.74	17.51	2,174.81	0.00	0.00	0.00
13,200.00	90.56	179.54	11,154.32	-2,274.73	18.31	2,274.81	0.00	0.00	0.00
13,300.00	90.56	179.54	11,153.34	-2,374.72	19.12	2,374.80	0.00	0.00	0.00
13,400.00	90.56	179.54	11,152.35	-2,474.72	19.92	2,474.80	0.00	0.00	0.00
13,500.00	90.56	179.54	11,151.37	-2,574.71	20.73	2,574.79	0.00	0.00	0.00
13,600.00	90.56	179.54	11,150.39	-2,674.70	21.53	2,674.79	0.00	0.00	0.00
13,700.00	90.56	179.54	11,149.40	-2,774.69	22.34	2,774.78	0.00	0.00	0.00
13,800.00	90.56	179.54	11,148.42	-2,874.68	23.14	2,874.78	0.00	0.00	0.00
13,900.00	90.56	179.54	11,147.43	-2,974.68	23.95	2,974.77	0.00	0.00	0.00
14,000.00	90.56	179.54	11,146.45	-3,074.67	24.75	3,074.77	0.00	0.00	0.00
14,100.00	90.56	179.54	11,145.47	-3,174.66	25.56	3,174.76	0.00	0.00	0.00
14,200.00	90.56	179.54	11,144.48	-3,274.65	26.36	3,274.76	0.00	0.00	0.00
14,300.00	90.56	179.54	11,143.50	-3,374.64	27.17	3,374.75	0.00	0.00	0.00
14,400.00	90.56	179.54	11,142.52	-3,474.64	27.97	3,474.75	0.00	0.00	0.00
14,500.00	90.56	179.54	11,141.53	-3,574.63	28.78	3,574.74	0.00	0.00	0.00
14,600.00	90.56	179.54	11,140.55	-3,674.62	29.58	3,674.74	0.00	0.00	0.00
14,700.00	90.56	179.54	11,139.57	-3,774.61	30.39	3,774.73	0.00	0.00	0.00
14,800.00	90.56	179.54	11,138.58	-3,874.60	31.19	3,874.73	0.00	0.00	0.00
14,900.00	90.56	179.54	11,137.60	-3,974.59	32.00	3,974.72	0.00	0.00	0.00
15,000.00	90.56	179.54	11,136.62	-4,074.59	32.80	4,074.72	0.00	0.00	0.00
15,100.00	90.56	179.54	11,135.63	-4,174.58	33.61	4,174.71	0.00	0.00	0.00
15,200.00	90.56	179.54	11,134.65	-4,274.57	34.41	4,274.71	0.00	0.00	0.00
15,300.00	90.56	179.54	11,133.67	-4,374.56	35.22	4,374.70	0.00	0.00	0.00
15,400.00	90.56	179.54	11,132.68	-4,474.55	36.02	4,474.70	0.00	0.00	0.00
15,500.00	90.56	179.54	11,131.70	-4,574.55	36.83	4,574.69	0.00	0.00	0.00
15,600.00	90.56	179.54	11,130.72	-4,674.54	37.63	4,674.69	0.00	0.00	0.00
15,672.87	90.56	179.54	11,130.00	-4,747.41	38.22	4,747.56	0.00	0.00	0.00

TD - PBHL (B14F 1H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL (B14F 1H)	0.00	0.00	0.00	0.00	0.00	446,243.13	786,353.47	32° 13' 27.535 N	103° 32' 27.617 W
- plan hits target center									
- Point									
PBHL (B14F 1H)	0.00	0.00	11,130.00	-4,747.41	38.22	441,495.72	786,391.69	32° 12' 40.556 N	103° 32' 27.579 W
- plan hits target center									
- Point									



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Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3601.6' GL + 25' RKB @ 3626.60usft
Site:	Boomsiang 14 Fed	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,290.00	1,290.00	Rustler		0.00	
1,770.00	1,770.00	Top Salt		0.00	
5,090.00	5,090.00	Base Salt		0.00	
5,190.00	5,190.00	Delaware		0.00	
6,060.00	6,060.00	Cherry Canyon		0.00	
7,840.00	7,840.00	Brushy Canyon		0.00	
9,070.00	9,070.00	1st BS LM		0.00	
10,065.00	10,065.00	1st BS SS		0.00	
10,640.04	10,640.00	2nd BS SS		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,598.07	10,598.07	0.00	0.00	KOP 10" DLS
11,503.70	11,171.00	-578.57	4.66	LP
15,672.87	11,130.00	-4,747.41	38.22	TD



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.

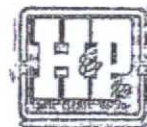
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

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



RIG 212



QUALITY DOCUMENT

**PHOENIX RUBBER
INDUSTRIAL LTD.**

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

 SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44, Hungary • H-1440 Budapest, P. O. Box 26
 Phone: (361) 456-4200 • Fax: (361) 217-2872, 456-4273 • www.takrussemerge.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 552	
PURCHASER: Phoenix Beattie Co.				P.O. N°: 1519FA-871	
PHOENIX RUBBER order N°: 170466		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 34128		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 = 25 MPa					
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	720 719		AISI 4130	C7626	
			AISI 4130	47357	
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:	Inspector		Quality Control		
29. April. 2002.			PHOENIX RUBBER Industrial Ltd. Hose Inspection and Verification Dept. PHOENIX RUBBER G.C.		

14094-66

40920-0-00015 N800C

8	GNL	+0.0000	0.00	14:00
	RDL	+0.0000	0.00	14:00
	BL	+10.44	0.00	14:00
7	GNL	+0.0000	0.00	13:40
	RDL	+0.0000	0.00	13:40
	BL	+10.47	0.00	13:40
6	GNL	+0.0000	0.00	13:20
	RDL	+0.0000	0.00	13:20
	BL	+10.50	0.00	13:20
5	GNL	+0.0000	0.00	13:00
	RDL	+0.0000	0.00	13:00
	BL	+10.55	0.00	13:00
4				
3				
2				

Don A. [Signature]
PHOENIX RUBBER
 Industrial Ltd.
 Hose Inspection and
 Certification Dept.

VERIFIED TRUE CO.
 PHOENIX RUBBER CO.
U.S.