

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

ATS-11-548
FORM APPROVED
OMB NO. 1004-0136
Expires: November 30, 2000
SECRETARY'S POTASH

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCD-HOBBS SEP 29 2011

5. Lease Serial No. **32H NMNM109758** **BAL: NM106495**

1a. Type of Work ☒ DRILL ☐ REENTER
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

RECEIVED

2. Name of Operator

OXY USA Inc.

3a. Address

P.O. Box 50250 Midland, TX 79710-0250

3b. Phone No. (include area code)

432-685-5717

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

At surface **1800 FSL 330 FWL NWSW(L)**

At proposed prod. zone **1650 FSL 330 FEL NESE(I)**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. **38847**

Bootleg Gin Federal #1H

9. API Well No.

30-025-40306

10. Field and Pool, or Exploratory

Undsg, Bootleg Ridge Delaware, NM

11. Sec., T, R, M, or Blk. and Survey or Area

Sec 1 T22S R32E

12. County or Parish

Lea

13. State

NM

14. Distance in miles and direction from nearest town or post office*

35 miles east from Jal, NM

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drg. unit line, if any)

330'

16. No. of Acres in lease

160

17. Spacing Unit dedicated to this well

160

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

N/A

19. Proposed Depth

12951'M 8546'V

20. BLM/BIA Bond No. on file

ES0136

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

3643.5' GL

22. Approximate date work will start*

6/1/11

23. Estimated duration

45

24. Attachments

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

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

25. Signature

David Stewart

Name (Printed/Typed)

David Stewart

Date

4/5/11

Title

Sr. Regulatory Analyst

Approved by (Signature)

Jesse J. Iven

Name (Printed/Typed)

Jesse J. Iven

Date

SEP 22 2011

Title

ACTING STATE DIRECTOR

Office

NM STATE OFFICE

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

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on Reverse)

Kx 10/03/11

Carlsbad Controlled Water Basin

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED**

OCT 05 2011

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220

Attention: Linda Denniston

RE: Bootleg Gin Federal Com #1H
Lea County, New Mexico

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

OPERATOR NAME: OXY USA Inc.
ADDRESS: P.O. Box 4294
Houston, Texas 77210-4294

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

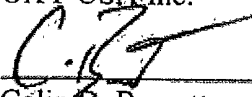
LEASE NO.: NMNM 105890 (M)
NMNM 109758 (N)
NMNM 106695 (O, P)

LEGAL DESCRIPTION: SL: 480' FSL 330' FWL SWSW(M)
PBHL: 330' FSL 330' FEL NWNW(P)
Section 1 T22S R32E
Lea County, New Mexico

FORMATIONS: Delaware

BOND COVERAGE: Nationwide

BLM BOND FILE NO.: ES 0136

AUTHORIZED SIGNATURE: OXY USA Inc.

Colin D. Barnett
TITLE: Landman

DATE: February 7, 2011

cc: David Stewart

DRILLING PROGRAM

Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Bootleg Gin Federal Com #1H	N/A
Pool Name/Number:	Undesignated Northwest Bootleg Ridge Delaware	6925
Surface Location:	1800 FSL 330 FWL NWSW(L) Sec 1 T22S R32E	
Bottom Hole Location:	1650 FSL 330 FEL NESE(I) Sec 1 T22S R32E	

Proposed TD: PH-8725'	8546'	TVD	12925'	TMD	Elevation: 3643.5' GL
SL - Lat: 32.4183980	Long: 103.6353909		X= 715372.5	Y= 516630.6	NAD - 1927
BH - Lat: 32.4180409	Long: 103.6204070		X= 719997.2	Y= 516531.2	NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

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

<u>Geological Marker</u>	<u>Depth</u>	<u>Type</u>
a. Upper Permian Sand	255'	Water
b. Anhydrite	1160'	---
c. Top Salt	1450'	---
d. Bottom Salt	4650'	---
e. Delaware	4900'	---
f. Bell Canyon	5000'	Oil
g. Cherry Canyon	5675'	Oil
h. Brushy Canyon	7045'	Oil
i. Bone Spring	8700'	Oil

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3. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
17-1/2"	1185'	13-3/8"	48	ST&C	H-40	New	2.69	2.33	2.16
				Hole filled with 9.2# Mud			770#	1730#	
12-1/4"	4860'	9-5/8"	36	LT&C	J-55	New	3.14	1.26	1.81
				Hole filled with 10.2# Mud			2020#	3520#	
8-3/4"	12925' M	5-1/2"	17	BT&C	L-80	New	1.65	1.29	1.7
DVT @ 7000' - POST @ 4910'				Hole filled with 8.6# Mud			6290#	7740#	

Collapse and burst loads calculated using Stress Check with anticipated loads

4. Cement Program

- a. 13-3/8" Surface Circulate cement to surface w/ 918sx HES light PP cmt w/ 4% Bentonite + .25#/sx Poly-E-Flake + 2% CaCl₂ 13.5ppg 1.75 yield 160% Excess followed by 440sx PP cmt w/ 2% CaCl₂, 14.8ppg 1.35 yield 160% Excess
- b. 9-5/8" Intermediate Circulate cement to surface w/ 1205sx HES light PP cmt w/ 5% Salt + .125#/sx Poly-E-Flake + 5#/sx Gilsonite 12.4ppg 2.10 yield 65% Excess followed by 200sx PP cmt w/ 1% CaCl₂, 14.8ppg 1.34 yield 65% Excess

- c. 5-1/2" Production Cement 1st stage w/ 2173sx Super H w/ .5% Halad-344 + .4% CFR-3 + 3#/sx Gilsonite + .3% HR-800 + .125#/sx Poly-E-Flake 13.2ppg 1.59 yield 130% Excess, Calc TOC-6995'
Cement 2nd stage w/ 695sx HES light PP cmt w/ 3#/sx Salt + .125#/sx Pheno Seal + 5#/sx Gilsonite 12.4ppg 2.09 yield 200% Excess followed by 150sx PP cmt w/ w/ 1% CaCl₂, 14.8ppg 1.35 yield 200% Excess, Calc TOC-4905'
Cement 3rd stage w/ 799sx HES Light PP cmt w/ 3#/sx Salt 12.4ppg 1.98 yield 35% Excess followed by 150sx PP cmt w/ 2% CaCl₂ 14.8ppg 1.35 yield 35% Excess, Circ Surface
- d. Pilot Hole Plug Cement from 8725' to +/- 7750' w/ 600sx PP cmt w/ 3% KCl + .75% CFR-3 + .2% HR-800 17.5 ppg .97 yield 35% excess

The above cement volumes could be revised pending the caliper measurement.

5. Pressure Control Equipment:

Surface 0- 1185	None
Production ¹²⁹⁵¹ 1185-12925	13-5/8" 10M two ram stack w/ 5M annular preventer, 10M Choke Manifold

All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Wellhead pressure rating will support this test and 13-3/8" casing will be protected from high pressure. Since the wellhead system is a multibowl design, this initial test will cover the requirements prior to drilling out the 9-5/8" casing shoe.

Pipe Rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 5000 psi WP rating. OXY requests that the entire system be tested as a 5000psi WP rating.

OXY also requests a variance to connect the BOP outlet to the choke manifold using a co-flex hose that is manufactured by Contitech Rubber Industrial KFT. It is a 3" ID X 35' flexible hose rated to 10000psi working pressure. It has been tested to 15000psi and is built to API Spec 16C. Once the flex line is installed, it will be tied down with safety clamps, see attached for certifications.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u> <u>ppg</u>	<u>Visc</u> <u>sec</u>	<u>Fluid</u> <u>Loss</u>	<u>Type System</u>
0 - 1185 ¹⁰²⁰	8.4-9.2	32-34	NC	Fresh Water/Spud Mud
1185 - 4860 ⁴⁷¹⁰	9.8-10.2	28-29	NC	Brine Water
4860 - 8000'	8.8-9.0	28-29	NC	Cut Brine
8000 - 8725' (Pilot)	9.0-9.4	34-36	8-10	Cut Brine Gel/LSND
8000 - 12925 (Curve/Lateral) ¹²⁹⁵¹	9.0-9.4	34-36	8-10	Cut Brine Gel/LSND

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.

- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

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

- a. Drill stem tests are not anticipated but if done will be based on geological sample shows.
- b. The open hole electrical logging program will consist of GR/RES/DES/NEU in Production Section (4860-TD of Pilot)
- c. No coring program is planned but if done will be sidewall rotary cores.
- d. Mud logging program will be initiated from 4860' to TD.

9. Potential Hazards:

No abnormal pressures, temperatures or H₂S gas are expected. The highest anticipated pressure gradient would be 0.43psi/ft or 3900psi. If H₂S is encountered the operator will comply with the provisions of Onshore Oil & 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. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.



Occidental Permian Ltd.
Bootleg Gin Federal Com #1H
Lea Co, New Mexico



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SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	91.23	0.00	0.00	0.00	0.00	0.00	0.00	
2	8000.00	0.00	91.23	8000.00	0.00	0.00	0.00	91.23	0.00	
3	8200.00	20.00	91.23	8195.96	-0.74	34.55	10.00	91.23	34.55	
4	8736.38	20.00	91.23	8700.00	-4.68	217.96	0.00	0.00	218.01	

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#1H	0.00	0.00	516630.60	715372.50	32°25'06.233N	103°38'07.407W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
None						

LEGEND

- Plot Hole
- Plan #3

FIELD DETAILS

Lea Co, New Mexico (Nad 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

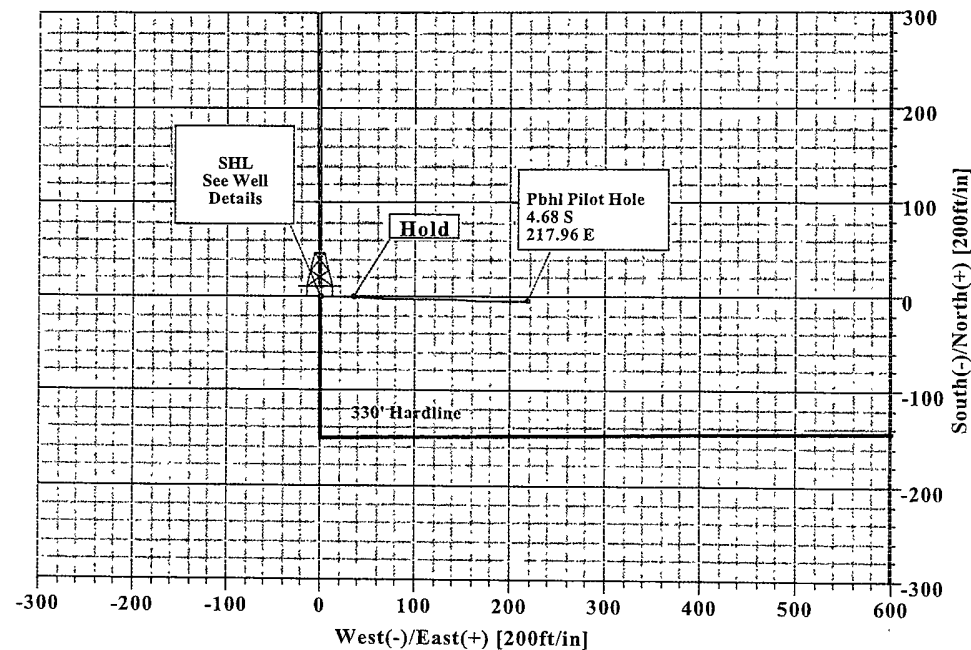
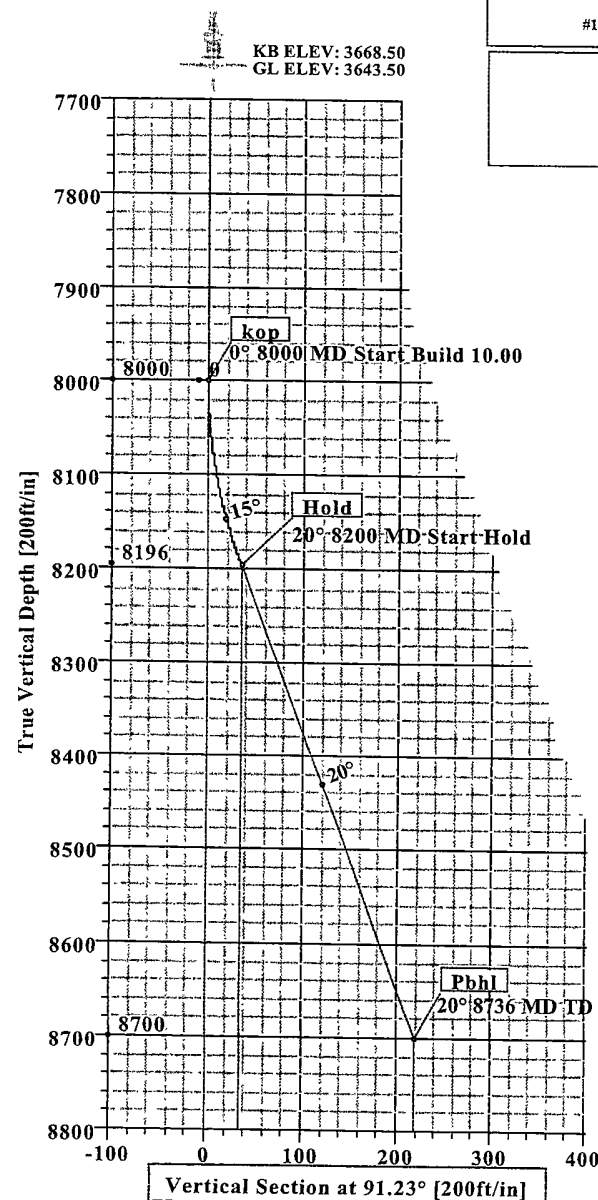
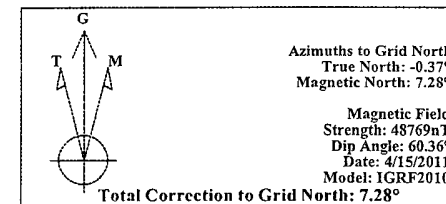
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Bootleg Gin Federal Com #1H

Site Centre Northing: 516630.60
Easting: 715372.50

Ground Level: 3643.50
Positional Uncertainty: 0.00
Convergence: 0.37



Plan: Plan #3 (#1H/Plot Hole)

Created By: Russell W. Joyner

Date: 3/30/2011



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WFT Plan Report - X & Y's

**Weatherford**

Company: Occidental Permian Ltd.	Date: 3/30/2011	Time: 15:16:46	Page: 1
Field: Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference: Well: #1H Grid North		
Site: Bootleg Gin Federal Com #1H	Vertical (TVD) Reference: SITE 3668.5		
Well: #1H	Section (VS) Reference: Well: (0.00N, 0.00E, 91.23Azi)		
Wellpath: Plot Hole	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #3

Date Composed: 3/30/2011

Principal: Yes

Version: 1

Tied-to: From Surface

Field: Lea Co, New Mexico (Nad 27)

Map System: US State Plane Coordinate System 1927

Map Zone:

New Mexico, Eastern Zone

Geo Datum: NAD27 (Clarke 1866)

Coordinate System:

Well Centre

Sys Datum: Mean Sea Level

Geomagnetic Model:

IGRF2010

Site: Bootleg Gin Federal Com #1H

Site Position:	Northing:	516630.60 ft	Latitude:	32 25 6.233 N
From: Map	Easting:	715372.50 ft	Longitude:	103 38 7.407 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3643.50 ft		Grid Convergence:	0.37 deg

Well: #1H

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	516630.60 ft	Latitude:	32 25 6.233 N
	+E/-W	0.00 ft	Easting:	715372.50 ft	Longitude:	103 38 7.407 W
Position Uncertainty:	0.00 ft					

Wellpath: Plot Hole

Drilled From: Surface

Current Datum: SITE

Height 3668.50 ft

Tie-on Depth: 0.00 ft

Magnetic Data: 4/15/2011

Above System Datum: Mean Sea Level

Field Strength: 48769 nT

Declination: 7.65 deg

Vertical Section: Depth From (TVD)

Mag Dip Angle: 60.36 deg

+N/-S
ft
+E/-W
ft
Direction
deg

0.00

0.00

0.00

91.23

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	91.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8000.00	0.00	91.23	8000.00	0.00	0.00	0.00	0.00	0.00	91.23	
8200.00	20.00	91.23	8195.96	-0.74	34.55	10.00	10.00	0.00	91.23	
8736.38	20.00	91.23	8700.00	-4.68	217.96	0.00	0.00	0.00	0.00	

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
8000.00	0.00	91.23	8000.00	0.00	0.00	0.00	0.00	516630.60	715372.50	kop
8100.00	10.00	91.23	8099.49	-0.19	8.70	8.70	10.00	516630.41	715381.20	
8200.00	20.00	91.23	8195.96	-0.74	34.55	34.55	10.00	516629.86	715407.05	Hold
8300.00	20.00	91.23	8289.93	-1.48	68.74	68.76	0.00	516629.12	715441.24	
8400.00	20.00	91.23	8383.90	-2.21	102.93	102.96	0.00	516628.39	715475.43	
8500.00	20.00	91.23	8477.87	-2.94	137.13	137.16	0.00	516627.66	715509.63	
8600.00	20.00	91.23	8571.84	-3.68	171.32	171.36	0.00	516626.92	715543.82	
8700.00	20.00	91.23	8665.81	-4.41	205.52	205.56	0.00	516626.19	715578.02	
8736.38	20.00	91.23	8700.00	-4.68	217.96	218.01	0.00	516625.92	715590.46	Pbhl

Targets

Name	Description	TVD	+N/-S	+E/-W	Map Northing	Map Easting	Latitude Deg Min Sec	Longitude Deg Min Sec
	Dip Dir							



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WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.	Date: 3/30/2011	Time: 15:16:46	Page: 2
Field: Lea Co. New Mexico (Nad:27)	Co-ordinate(NE) Reference: Well: #1H; Grid North		
Site: Bootleg Gin Federal Com #1H	Vertical (TVD) Reference: SITE 3668.5		
Well: #1H	Section (VS) Reference: Well (0.00N;0.00E;91.23Azi)		
Wellpath: Plot Hole	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
8000.00	8000.00	kop
8200.00	8195.96	Hold
8736.38	8700.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



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WFT Plan Report - X & Y's



Weatherford

Company:	Occidental Permian Ltd	Date:	3/30/2011	Time:	15:23:54	Page:	1
Field:	Lea Co, New Mexico (Nad 27)	Co-ordinate(NE) Reference:	Well: #1H, Grid North				
Site:	Bootleg Gin Federal Com #1H	Vertical (IVD) Reference:	SITE 3668.5				
Well:	#1H	Section (VS) Reference:	Well (0'00N;0'00E;91'23Azi)				
Wellpath:	Lateral	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Plan:	Plan #3	Date Composed:	3/30/2011
Principal:	Yes	Version:	1
		Tied-to:	User Defined

Field:	Lea Co, New Mexico (Nad 27)		
Map System:	US State Plane Coordinate System 1927	Map Zone:	New Mexico, Eastern Zone
Geo Datum:	NAD27 (Clarke 1866)	Coordinate System:	Well Centre
Sys Datum:	Mean Sea Level	Geomagnetic Model:	IGRF2010

Site:	Bootleg Gin Federal Com #1H				
Site Position:		Northing:	516630.60 ft	Latitude:	32 25 6.233 N
From:	Map	Easting:	715372.50 ft	Longitude:	103 38 7.407 W
Position Uncertainty:	0.00 ft	North Reference:		Grid	
Ground Level:	3643.50 ft	Grid Convergence:		0.37 deg	

Well: #1H		Slot Name:				
Well Position:	+N/-S	0.00 ft	Northing:	516630.60 ft	Latitude:	32 25 6.233 N
	+E/-W	0.00 ft	Easting :	715372.50 ft	Longitude:	103 38 7.407 W
Position Uncertainty:		0.00 ft				

Wellpath: Lateral		Drilled From:		Plot Hole
Current Datum: SITE		Tie-on Depth:		8238.18 ft
Magnetic Data: 4/15/2011		Above System Datum:		Mean Sea Level
Field Strength: 48769 nT		Declination:		7.65 deg
Vertical Section: Depth From (TVD)		Mag Dip Angle:		60.36 deg
ft		+N/-S		Direction
		ft		deg
0.00		0.00		91.23

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
8238.18	20.00	91.23	8231.84	-1.02	47.60	0.00	0.00	0.00	0.00	
8821.51	90.00	91.23	8546.00	-10.66	496.17	12.00	12.00	0.00	0.00	
12951.00	90.00	91.23	8546.00	-99.40	4624.70	0.00	0.00	0.00	0.00	Pbhl

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
8238.18	20.00	91.23	8231.84	-1.02	47.60	47.61	0.00	516629.58	715420.10	kop
8300.00	27.42	91.23	8288.40	-1.56	72.44	72.45	12.00	516629.04	715444.94	
8400.00	39.42	91.23	8371.72	-2.74	127.40	127.43	12.00	516627.86	715499.90	
8500.00	51.42	91.23	8441.78	-4.26	198.48	198.52	12.00	516626.34	715570.98	
8600.00	63.42	91.23	8495.53	-6.07	282.56	282.63	12.00	516624.53	715655.06	
8700.00	75.42	91.23	8530.62	-8.08	375.99	376.08	12.00	516622.52	715748.49	
8800.00	87.42	91.23	8545.52	-10.20	474.67	474.78	12.00	516620.40	715847.17	
8821.51	90.00	91.23	8546.00	-10.66	496.17	496.28	12.00	516619.94	715868.67	Lp
8900.00	90.00	91.23	8546.00	-12.35	574.64	574.77	0.00	516618.25	715947.14	
9000.00	90.00	91.23	8546.00	-14.50	674.61	674.77	0.00	516616.10	716047.11	
9100.00	90.00	91.23	8546.00	-16.65	774.59	774.77	0.00	516613.95	716147.09	
9200.00	90.00	91.23	8546.00	-18.79	874.57	874.77	0.00	516611.81	716247.07	
9300.00	90.00	91.23	8546.00	-20.94	974.54	974.77	0.00	516609.66	716347.04	
9400.00	90.00	91.23	8546.00	-23.09	1074.52	1074.77	0.00	516607.51	716447.02	
9500.00	90.00	91.23	8546.00	-25.24	1174.50	1174.77	0.00	516605.36	716547.00	
9600.00	90.00	91.23	8546.00	-27.39	1274.47	1274.77	0.00	516603.21	716646.97	
9700.00	90.00	91.23	8546.00	-29.54	1374.45	1374.77	0.00	516601.06	716746.95	
9800.00	90.00	91.23	8546.00	-31.69	1474.43	1474.77	0.00	516598.91	716846.93	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd	Date: 3/30/2011	Time: 15:23:54	Page: 2
Field: Lea Co. New Mexico (Nad 27)	Co-ordinate (NE) Reference: Well #1H, Grid North		
Site: Bootleg Gin Federal Com #1H	Vertical (TVD) Reference: SITE 3668.5		
Well: #1H	Section (VS) Reference: Well (0.00N, 0.00E, 91.23Azi)		
Wellpath: Lateral	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
9900.00	90.00	91.23	8546.00	-33.84	1574.41	1574.77	0.00	516596.76	716946.91	
10000.00	90.00	91.23	8546.00	-35.99	1674.38	1674.77	0.00	516594.61	717046.88	
10100.00	90.00	91.23	8546.00	-38.13	1774.36	1774.77	0.00	516592.47	717146.86	
10200.00	90.00	91.23	8546.00	-40.28	1874.34	1874.77	0.00	516590.32	717246.84	
10300.00	90.00	91.23	8546.00	-42.43	1974.31	1974.77	0.00	516588.17	717346.81	
10400.00	90.00	91.23	8546.00	-44.58	2074.29	2074.77	0.00	516586.02	717446.79	
10500.00	90.00	91.23	8546.00	-46.73	2174.27	2174.77	0.00	516583.87	717546.77	
10600.00	90.00	91.23	8546.00	-48.88	2274.24	2274.77	0.00	516581.72	717646.74	
10700.00	90.00	91.23	8546.00	-51.03	2374.22	2374.77	0.00	516579.57	717746.72	
10800.00	90.00	91.23	8546.00	-53.18	2474.20	2474.77	0.00	516577.42	717846.70	
10900.00	90.00	91.23	8546.00	-55.33	2574.17	2574.77	0.00	516575.27	717946.67	
11000.00	90.00	91.23	8546.00	-57.47	2674.15	2674.77	0.00	516573.13	718046.65	
11100.00	90.00	91.23	8546.00	-59.62	2774.13	2774.77	0.00	516570.98	718146.63	
11200.00	90.00	91.23	8546.00	-61.77	2874.10	2874.77	0.00	516568.83	718246.60	
11300.00	90.00	91.23	8546.00	-63.92	2974.08	2974.77	0.00	516566.68	718346.58	
11400.00	90.00	91.23	8546.00	-66.07	3074.06	3074.77	0.00	516564.53	718446.56	
11500.00	90.00	91.23	8546.00	-68.22	3174.04	3174.77	0.00	516562.38	718546.54	
11600.00	90.00	91.23	8546.00	-70.37	3274.01	3274.77	0.00	516560.23	718646.51	
11700.00	90.00	91.23	8546.00	-72.52	3373.99	3374.77	0.00	516558.08	718746.49	
11800.00	90.00	91.23	8546.00	-74.67	3473.97	3474.77	0.00	516555.93	718846.47	
11900.00	90.00	91.23	8546.00	-76.81	3573.94	3574.77	0.00	516553.79	718946.44	
12000.00	90.00	91.23	8546.00	-78.96	3673.92	3674.77	0.00	516551.64	719046.42	
12100.00	90.00	91.23	8546.00	-81.11	3773.90	3774.77	0.00	516549.49	719146.40	
12200.00	90.00	91.23	8546.00	-83.26	3873.87	3874.77	0.00	516547.34	719246.37	
12300.00	90.00	91.23	8546.00	-85.41	3973.85	3974.77	0.00	516545.19	719346.35	
12400.00	90.00	91.23	8546.00	-87.56	4073.83	4074.77	0.00	516543.04	719446.33	
12500.00	90.00	91.23	8546.00	-89.71	4173.80	4174.77	0.00	516540.89	719546.30	
12600.00	90.00	91.23	8546.00	-91.86	4273.78	4274.77	0.00	516538.74	719646.28	
12700.00	90.00	91.23	8546.00	-94.01	4373.76	4374.77	0.00	516536.59	719746.26	
12800.00	90.00	91.23	8546.00	-96.16	4473.74	4474.77	0.00	516534.44	719846.24	
12900.00	90.00	91.23	8546.00	-98.30	4573.71	4574.77	0.00	516532.30	719946.21	
12951.00	90.00	91.23	8546.00	-99.40	4624.70	4625.77	0.00	516531.20	719997.20	Pbhl

Targets

Name	Description	Dir	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Pbhl			8546.00	-99.40	4624.70	516531.20	719997.20	32 25 4 947 N	103 37 13.466 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
4860.00	9.625	12.250	9 5/8"	

Annotation

MD ft	TVD ft	
8238.18	8231.84	kop
8821.51	8546.00	Lp
12951.00	0.00	Pbhl



Occidental Permian Ltd.
Bootleg Gin Federal Com #1H
Lea Co, New Mexico



KB ELEV: 3668.50
GL ELEV: 3643.50

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8238.18	20.00	91.23	8231.84	-1.02	47.60	0.00	0.00	47.61	
2	8821.51	90.00	91.23	8546.00	-10.66	496.17	12.00	0.00	496.28	
3	12951.00	90.00	91.23	8546.00	-99.40	4624.70	0.00	0.00	4625.77	Pbhl

WELL DETAILS

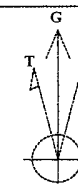
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#1H	0.00	0.00	516630.60	715372.50	32°25'06.233N	103°38'07.407W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8546.00	-99.40	4624.70	516531.20	719997.20	Point



Weatherford



Azimuths to Grid North
True North: -0.37°
Magnetic North: 7.28°

Magnetic Field
Strength: 48769nT
Dip Angle: 60.36°
Date: 4/15/2011
Model: IGRF2010

Total Correction to Grid North: 7.28°

LEGEND

- #1H (Plot Hole)
- Lateral
- Plan #3

FIELD DETAILS

Lea Co, New Mexico (Nad 27)

Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

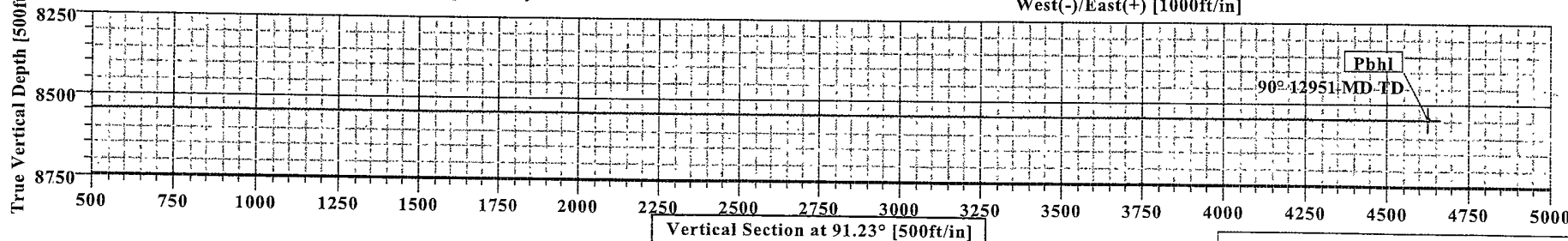
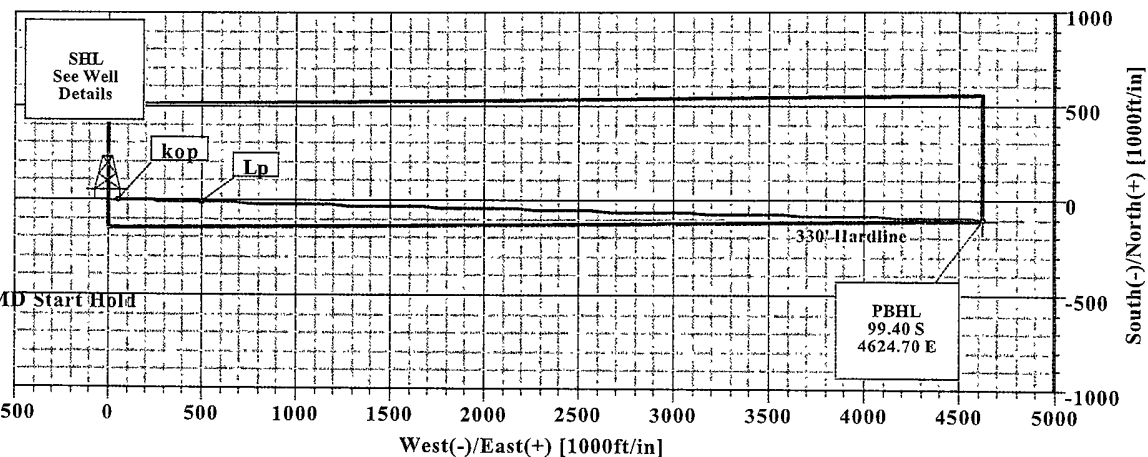
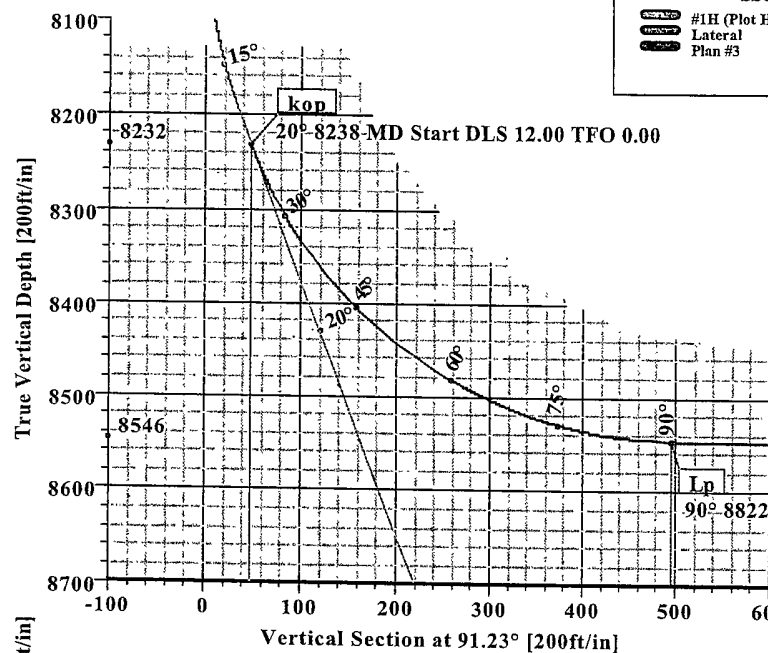
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Bootleg Gin Federal Com #1H

Site Centre Northing: 516630.60
Easting: 715372.50

Ground Level: 3643.50
Positional Uncertainty: 0.00
Convergence: 0.37

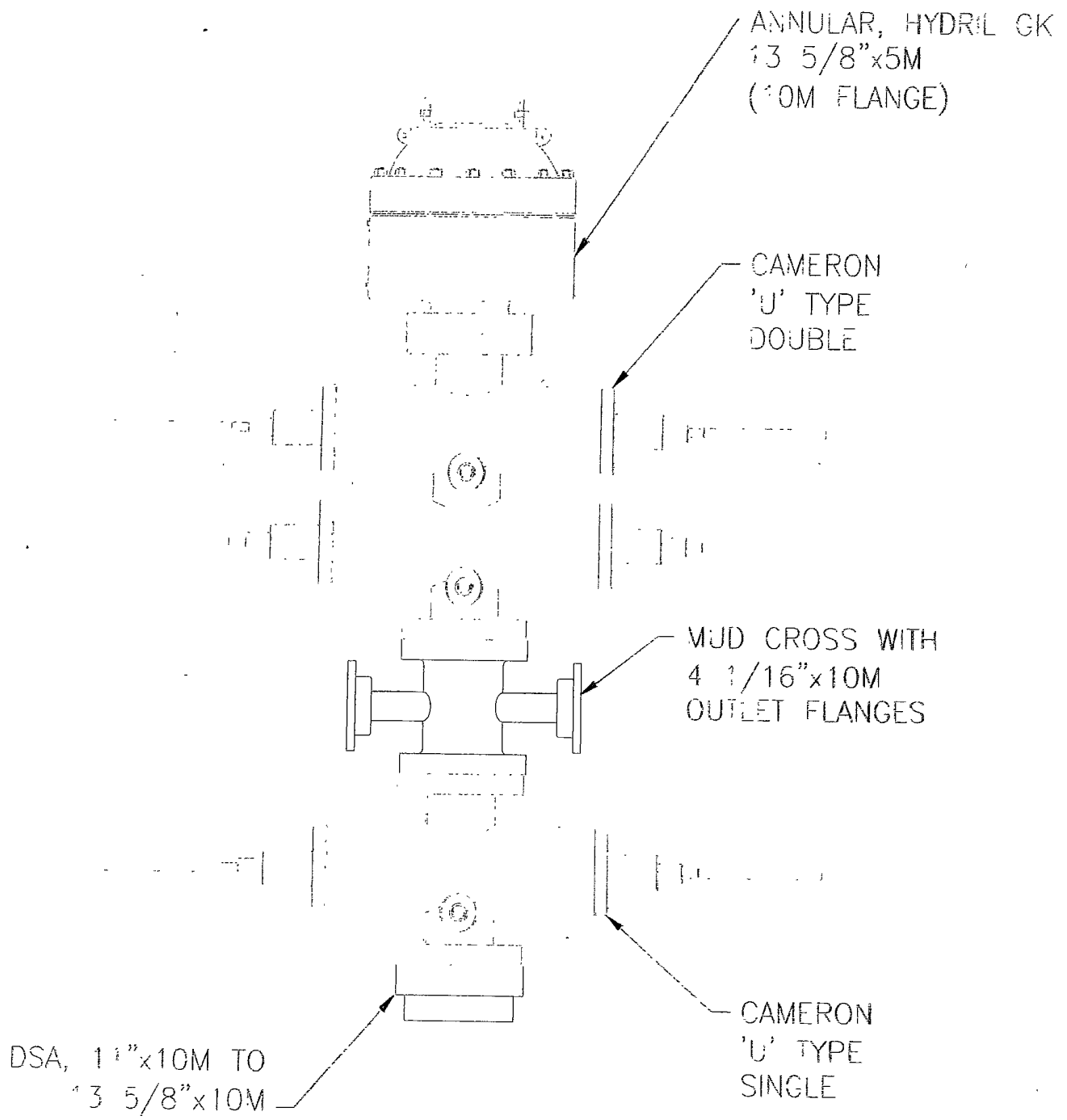


Plan: Plan #3 (#1H/Lateral)

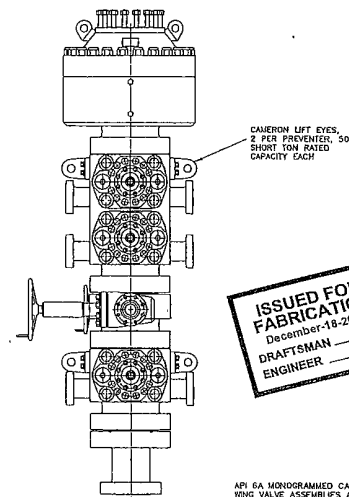
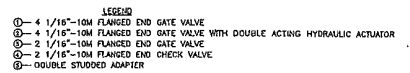
Created By: Russell W. Joyner

Date: 3/30/2011

BOP Diagram



BOP STACK



ISSUED FOR FABRICATION
December-18-2007
DRAFTSMAN _____
ENGINEER _____

API 6A MONOGRAMMED CAMERON CHOKE AND KILL
VALVE ASSEMBLIES ARE NOT SHOWN FOR
CLARITY

WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS
OR QUICK CONNECT FITTINGS

WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS
OR QUICK CONNECT FITTINGS

13 5/8-10M STACK

PROPRIETARY

THE DRAWING AND THE DATA AND INFORMATION INCLUDED
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WITHOUT THE PRIOR, WRITTEN CONSENT OF A FULLY AUTHORIZED
OFFICER OF HELMREICH & PAYNE INT'L DRILLING CO

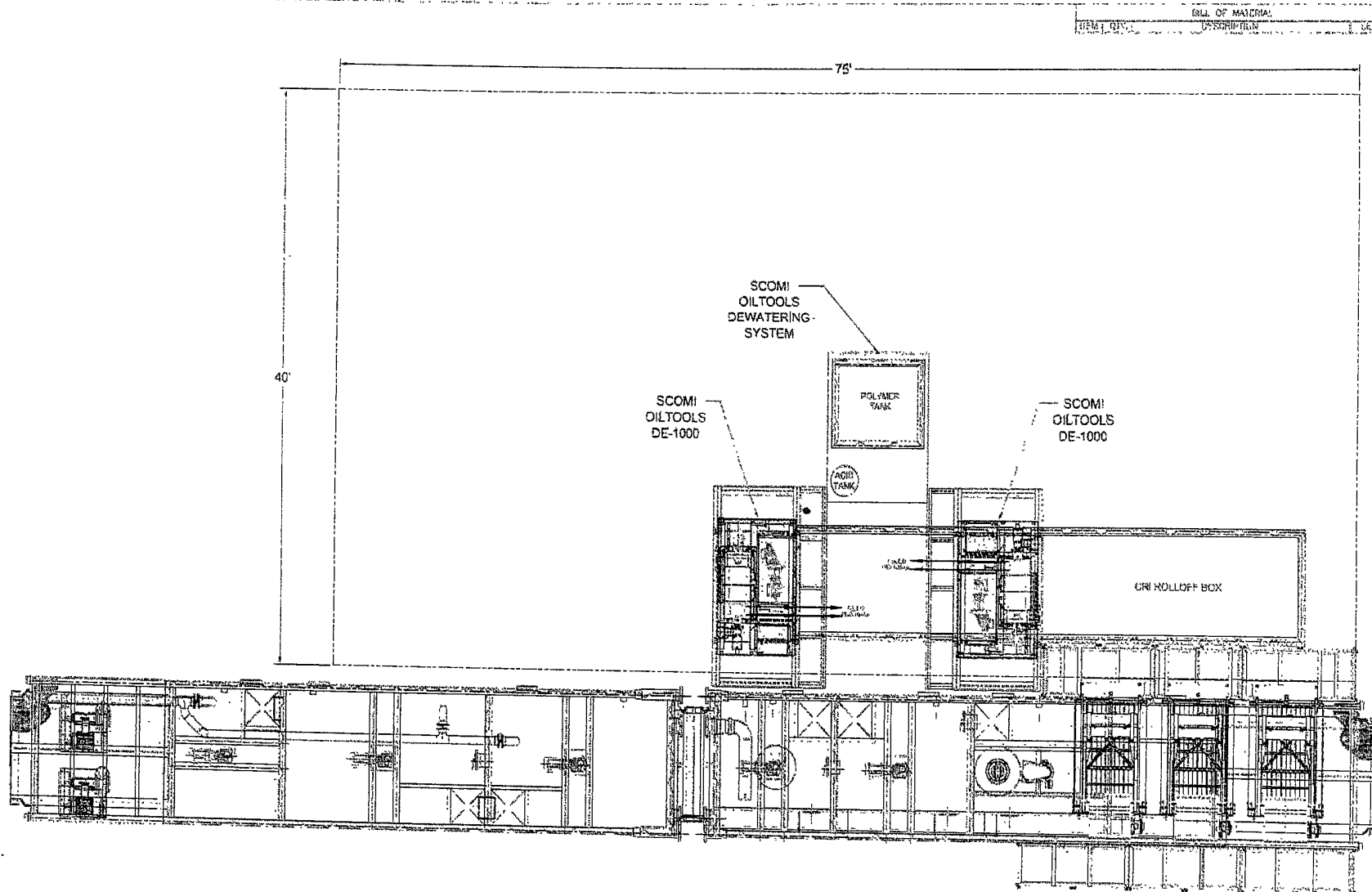


HELMERICH & PAYNE
INTERNATIONAL DRILLING CO

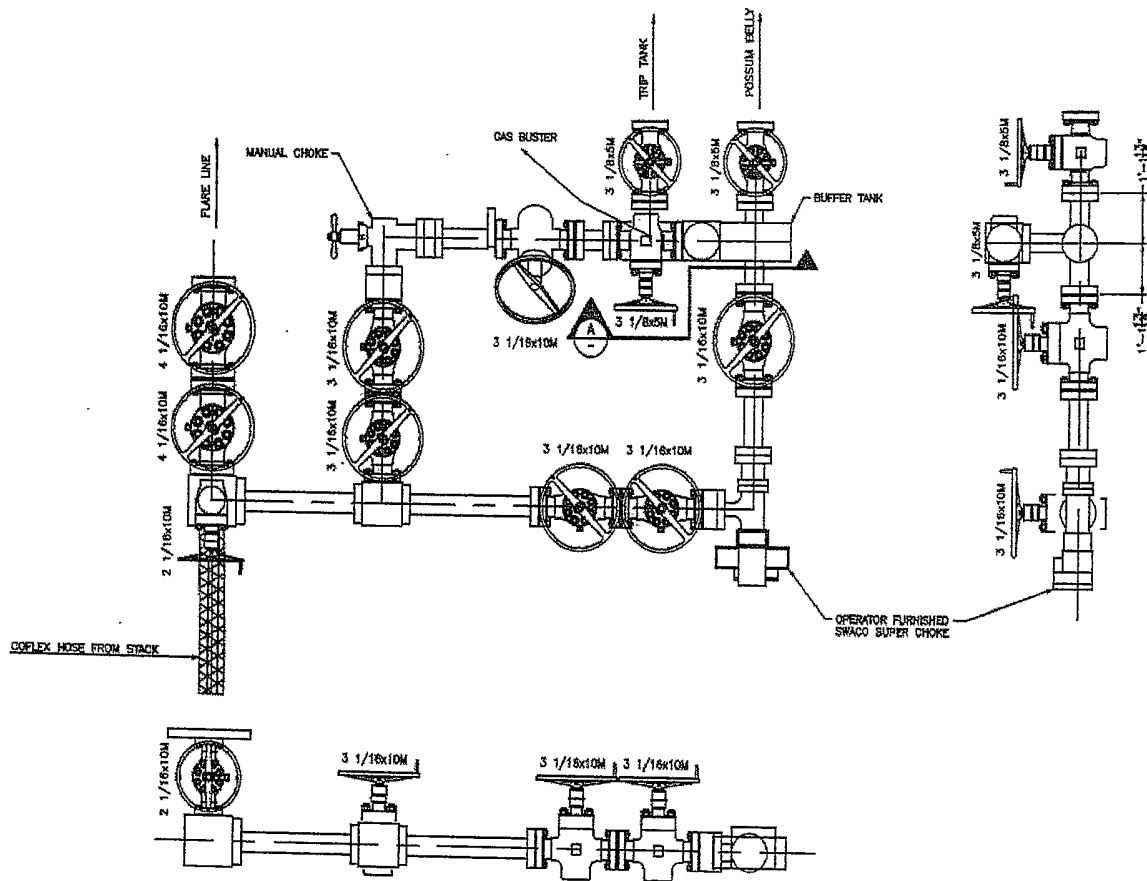
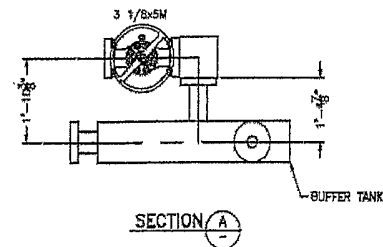
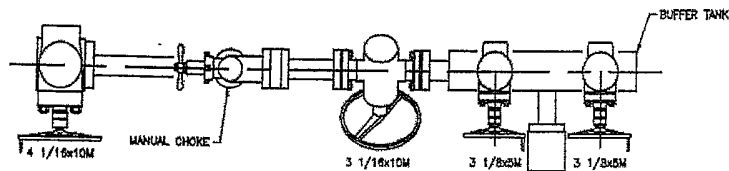
ENDORSEMENT APPROVAL DATE		TITLE 13 5/8"-10M BOP 3 RAM STACK	
12/18/87 ADDED SHEET 03		JAN FLEXRIG3	
4-10-87 UPDATING RIGGING, RAMM SHEET 030100 NOS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 			

OXY FLEX III PAD (SCOMI Closed Loop System)





1. ALL SCHEMATIC MATERIAL SHALL BE AS SHOWN - AS BUILT. 2. ALL PIPE SHALL BE MATERIAL SA 105 OR B. 3. ALL LUMINOUS SHALL BE 200' TYP & MATERIAL SA 105. 4. ALL WITNESS SHALL BE 40' TYP & MATERIAL SA 105. 5. TANK FABRICATOR SHALL BE IN ACCORDANCE WITH API-650. The design, fabrication and operation of this facility or facility are the exclusive confidential property of Scomi International Limited and shall not be reproduced or disclosed to others in any manner, in any form, or by any means, without the written permission of Scomi International Limited. This drawing and the design shall be used only for the purposes intended. The drawing and the design shall be used only for the purposes intended. The drawing and the design shall be used only for the purposes intended.		CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&P - FLEX RIGS / PG 1 OF 2		Scomi 801 W. Lake Mead Parkway, Suite 200, Henderson, Nevada 89015 TEL: (702) 586-1000 FAX: (702) 586-1001	
DATE	10/03/03	REVISED BY	NTC	DATE	10/03/03
DESIGNED BY	NTC	DATE	10/03/03	REVISED BY	NTC
APPROVED	NTC	DATE	10/03/03	REVISED BY	NTC
521S-014		A		521S-014	



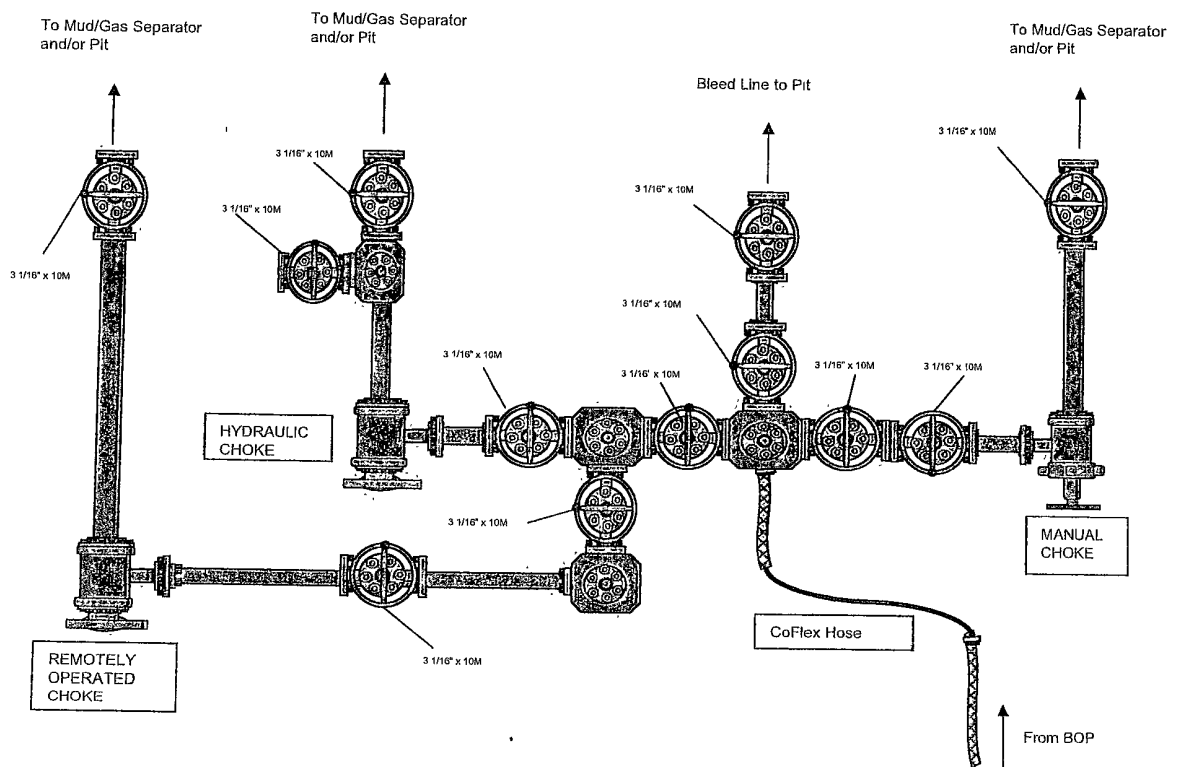
ISSUED FOR FABRICATION
 MARCH 8, 2008
 DRAFTSMAN _____
 ENGINEER _____

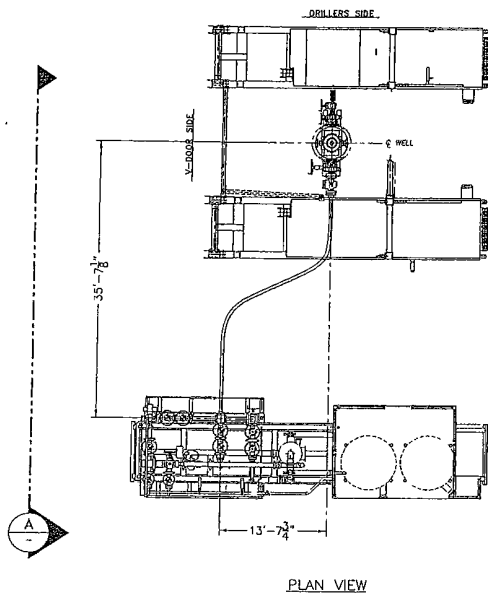
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ENGINEERING APPROVAL		DATE	TITLE	
			CHOKE MANIFOLD	
CUSTOMER		H&P		
PROJECT		FLEXIG3		
DATE	10/15/02	ADJUST DN TO FIELD CONFIRMED DN	REV	1
DATE		DESCRIPTION	BY	
DATE			BY	

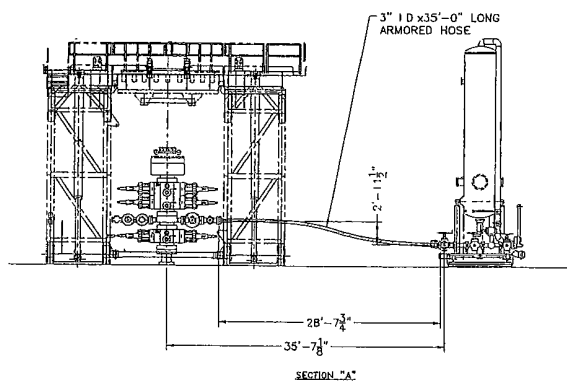
DRAWN	MTS	DATE	2-28-02	DWG. NO.	
SCALE	3/4"=1'	SHEET	1 OF 1	216-P1-05	REV. A

10M CHOKE MANIFOLD CONFIGURATION





PLAN VIEW



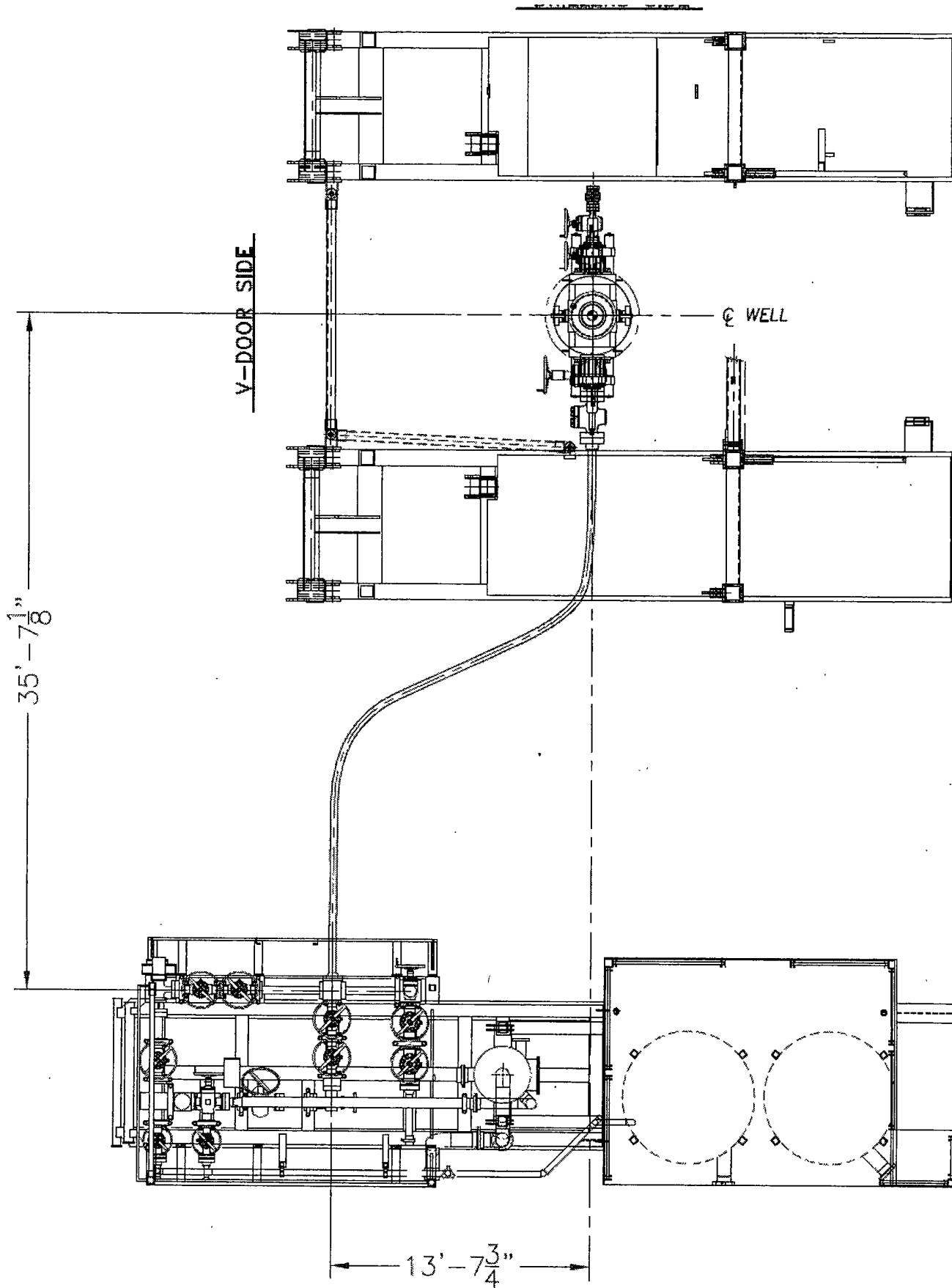
SECTION "A"

ISSUED FOR
FABRICATION
December-19-2007
DRAFTSMAN
ENGINEER

PROPRIETARY

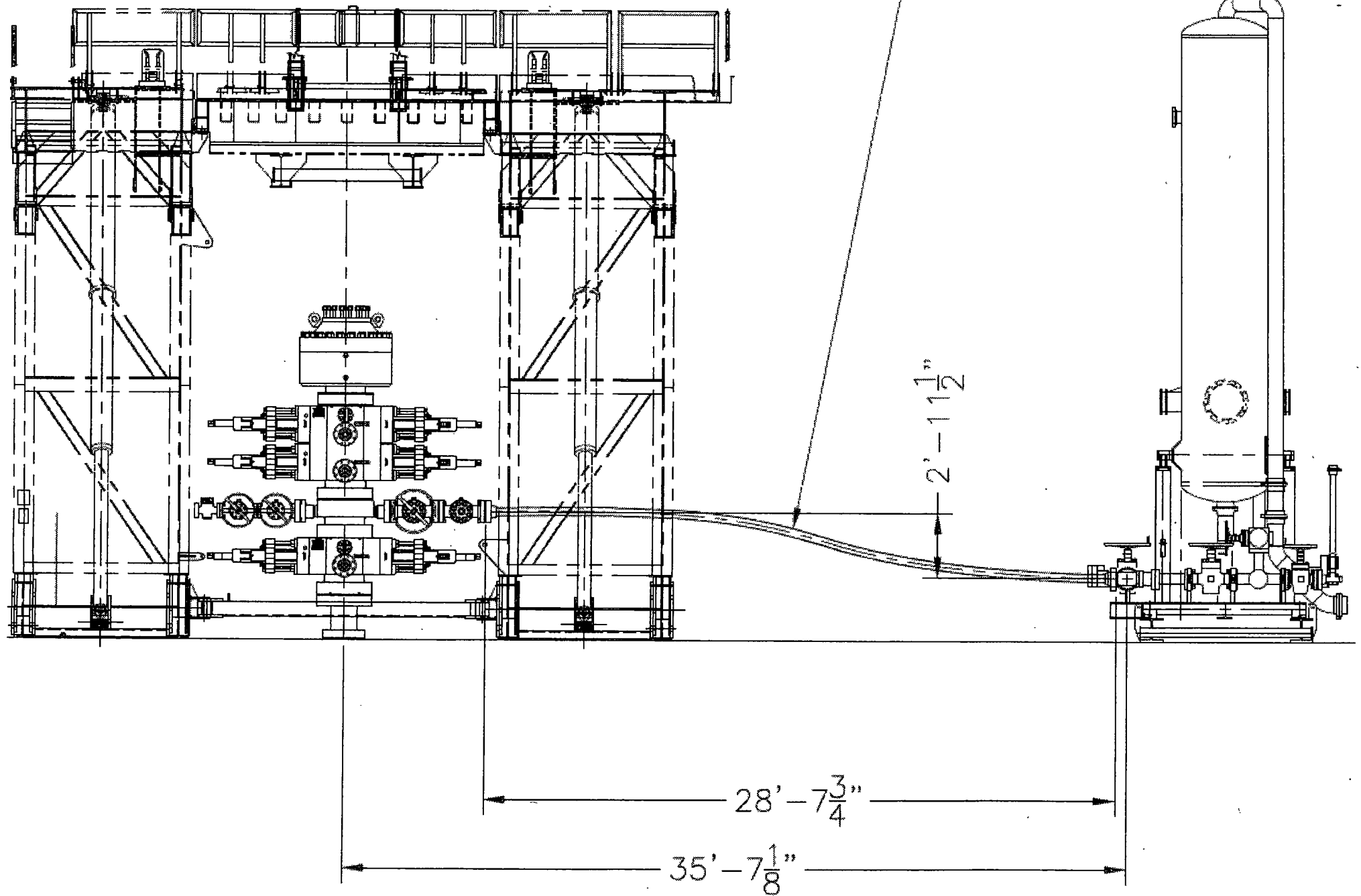
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OFFICER OF HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

ENGINEERING APPROVAL		DATE	TITLE
△			HELMERICH & PAYNE INTERNATIONAL DRILLING CO
△			CHOKE LINE SYSTEM
△			FLEXRIG3
△			CUSTOMER
△			PROJECT
△	12/18/07	REVISED SHEET TOTAL CALLOUT	BY
REV	DATE	DESCRIPTION	BY
DATA	SCALE: 3/16"=1'	SHEET 2 OF 3	210-P1-07
DWG NO	DATE 4-10-07	REV	A

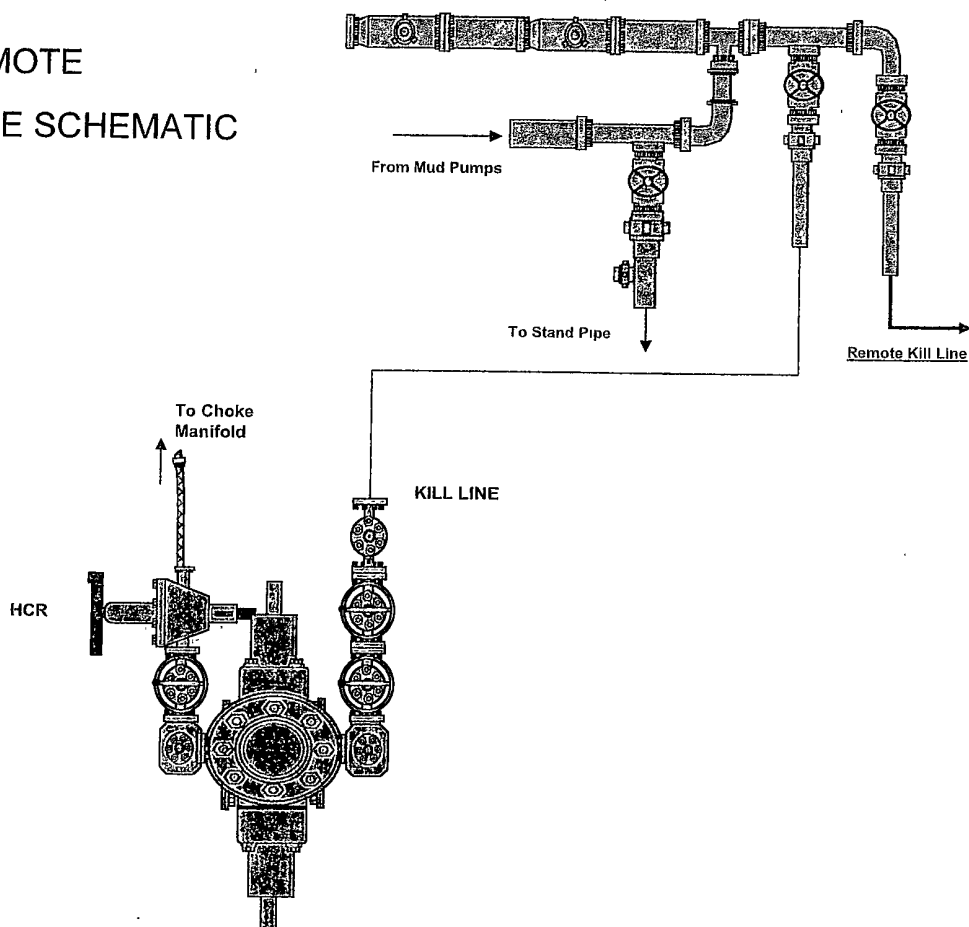


PLAN VIEW

3" I.D.x35'-0" LONG
ARMORED HOSE



10M REMOTE
KILL LINE SCHEMATIC



40' = 0⁵ x 10¹ - 0
MEETING/CHANGE HOUSE

-MAST IN HORIZONTAL POSITION

CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.
Equipment : 6 pcs. Choke and Kill Hose with installed couplings
Type : 3" x 10,67 m WP: 10000 psi
Supplier File Number : 412638
Date of Shipment : April. 2008
Customer : Phoenix Beattie Co.
Customer P.o. : 002491
Referenced Standards
/ Codes / Specifications : API Spec 16 C
Serial No.: 52754,52755,52776,52777,52778,52782

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

Signed :



ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(1)

Position: Q.C. Manager

Date: 04. April. 2008

Coflex Hose Certification

Page: 1/1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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ContiTech Rubber
Industrial Kft.
Quality Control Dept.
(3)



Material Identification Certificate

[illegible]

We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattie Corporation.

05/23/09

Coffex Hose Certification

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

11535 Brittoncore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: mail@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP10CK3A-35-4F1 3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1	1	0
2	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

Coflex Hose Certification



Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 746	
PURCHASER: Phoenix Beattle Co.				P.O. N°: 002491	
CONTITECH ORDER N°: 412638		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 52777		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		917 913		AISI 4130 AISI 4130	
				Heat N° T7998A 26984	
INFOCHIP INSTALLED				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: 04. April. 2008		Inspector		Quality Control  ContiTech Rubber Industrial Kft. Quality Control Dept. (1)	

Coflex Hose Certification

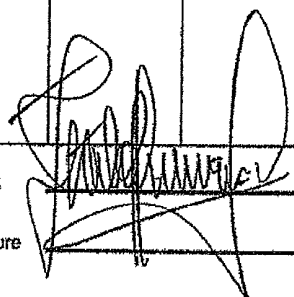
Form No 100/12

PHOENIX Beattie**Phoenix Beattie Corp**11535 Brittanook Park Drive
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Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	00CERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	00CERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	00FREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT	1	1	0

Phoenix Beattie Inspection Signature : 

Received In Good Condition : Signature

Print Name

Date

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