13-724

HOBBS OCD

Form 3160-3
(March 2012)

AUG 05 2013

OCD Hobbs

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.
NMNM055149

6. If Indian, Allotee. or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. (40062)
CORBIN SOUTH FEDERAL #3

2. Name of Operator OXY USA INC (16696)

9. API Well No.
30-025-41317

3a. Address P.O. BOX 4294
HOUSTON, TX 77210

3b. Phone No. *(include area code)*
713-513-6640

10. Field and Pool, or Exploratory (13320)
CORBIN; WOLFCAMP, SOUTH

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface 330' FSL & 2000' FWL
At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area
N, SEC 9; T18S, R33E

14. Distance in miles and direction from nearest town or post office*
37 MILES SOUTHEAST OF LOVINGTON, NM

12. County or Parish
LEA

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'

16. No. of acres in lease
280

17. Spacing Unit dedicated to this well
80

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 335'

19. Proposed Depth
12000' MD / 12000' TVD

20. BLM/BIA Bond No. on file
ESB000226 / NMB000862

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3923.2' GL

22. Approximate date work will start*
01/02/2014

23. Estimated duration
20 DAYS

24. Attachments

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

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

25. Signature
Name *(Printed/Typed)* Jennifer Duarte (jennifer_duarte@oxy.com)
Date 04/22/2013

Title
Regulatory Specialist

Approved by *(Signature)* /s/George MacDonell
Name *(Printed/Typed)*
Date AUG 2 2013

Title FIELD MANAGER
Office CARLSBAD FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

KZ 08/08/13

SEE ATTACHED FOR CONDITIONS OF APPROVAL

CONDITION OF APPROVAL: Approval for Drilling ONLY. CANNOT produce without the OCD Santa Fe approval for Non-Standard Location.

Approval Subject to General Requirements & Special Stipulations Attached

AUG 13 2013

OXY USA Inc

Corbin South Federal #3
APD Data

OPERATOR NAME / NUMBER: OXY USA Inc

LEASE NAME / NUMBER: Corbin South Federal #3

STATE: NM **COUNTY: Lea**

SURFACE LOCATION: **330' FSL & 2000' FWL, Sec 9, T18S, R33E**

C-102 PLAT APPROX GR ELEV: 3923.2' **EST KB ELEV: 3947.2' (24' KB)**

1. **GEOLOGIC NAME OF SURFACE FORMATION**
   a. Permian
2. **ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS**

Formation Tops	TV Depth Top	Expected Fluid
Rustler	1508	--
Salado (T. Salt)	1593	--
Tansill (B. Salt)	2688	--
T. Yates	3048	--
T. Seven Rivers	3418	Poss Oil
T. Queen	4258	Poss Oil
Cherry Canyon	5313	Oil/Gas
Brushy Canyon	5903	Oil/Gas
T. BSPG1 Limestone	6828	Oil/Gas
T. BSPG 1st Sand	8473	Oil/Gas
T. BSPG2 Limestone	8748	Oil/Gas
T. BSPG 2nd Sand	9068	Oil/Gas
T. BSPG3 Limestone	9693	Oil/Gas
T. BSPG 3rd Sand	9953	Oil/Gas
T. Wolfcamp	10353	Oil/Gas
T. WFMP Upper Interval	10923	Oil/Gas
T. WFMP Lower Interval	11448	Oil/Gas
TD	12000	Oil/Gas

Fresh water may be encountered above the Rustler formation. Surface casing will be set below the top of the Rustler to protect it.

GREATEST PROJECTED TD 12000' MD/ 12000' TVD **OBJECTIVE:** Wolfcamp

3. **CASING PROGRAM**

Surface Casing: 13.375" casing set at ± 1535' MD/1535' TVD in a 17.5" hole filled with 8.90 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-~~1535'~~ 1560'	~~1535'~~	48	H-40	ST&C	770	1730	322	12.715	12.557	1.21	1.66	1.85

Intermediate Casing: 9.625" casing set at 3100'MD / 3100'TVD in a 12.25" hole filled with 10 mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-~~3100'~~	~~3100'~~	36	J-55	LT&C	2020	3520	453	8.84	8.75	1.35	1.29	2.14

Production Casing: 5.5" casing set at ± 12000'MD / 12000' TVD in a 8.75" hole filled with 9.0 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0' - 12000'	12000'	17	L-80	BT&C	6290	7740	338	4.892	4.767	1.18	1.41	1.69

Note: All Casing is in new condition

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Displacement fluid + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Surface ~~(TOC: 0' – 1535')~~ See COA							
Lead: 0' –1408' (165% Excess)	1520	1408	Premium Plus cement with 2% Calcium Chloride, 4% Bentonite, 0.125 lbm/sl Poly-E-Flake	9.18	13.5	1.75	589 psi
Tail: 1408' –1535' (165 % Excess)	200	127	Premium Plus cement with 94 lbm/sk Premium Plus Cement, 2% Calcium Chloride	6.39	14.80	1.35	1608 psi

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Intermediate ~~(TOC: 0' –3100')~~ See COA							
Lead: 0' –2710' (105% Excess)	880	2710'	Light Premium Plus Cement, with 5% Salt, 3lb-sk Kol Seal, 0.125 lb/sk Poly-E-Flake	9.68	12.9	1.87	840 psi
Tail: 2710' –3100' (105 % Excess)	200	390'	Premium Plus cement with 1% Calcium Chloride	6.36	14.80	1.34	2125 psi

Production Interval

Interval	Amount sx	Ft of Fill See COA	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Production ~~(TOC: 2600' – 11500')~~ Single Stage							
Lead: 2600' – 6800' (100% Excess)	800	4200'	Premium Cement, 14.8 lb/sk Silicalite 50/50 Blend, 16 lb/sk Scotchlite HGS-6000, 2 lb/sk Kol-Seal, 0.5 lb/sk CFR-3, 0.15 lb/sk WG-17, 1 lb/sk Cal-Seal 60, 1.5 lb/sk Salt.	9.79	10.80	2.39	520 psi
Tail: 6800' – 12000' (50% Excess)	1090	5200'	Super H Cement, 3 lbm/sk Kol-Seal, 3 lbm/sk Salt, 0.125 lbm/sk Poly-E-Flake, 0.2 % and HR-601, & 0.5% Halad-344, 0.4% CFR 3.	8.40	13.2	1.66	1750 psi

Cement Additives: *Bentonite (light weight additive), Calcium Chloride (accelerator), Halad-344 (low fluid loss control), HR-601 (retarder), Kol-Seal (lost circulation additive), Salt (salt), Poly-E-Flake (lost circulation additive), Silicalite (Additive Material), CFR-3 (Dispersant), Schotchlite HGS 6000 (Light Weight Additive), WG-17 (Gelling Agent), Cal-Seal 60 (Accelerator)

5. PRESSURE CONTROL EQUIPMENT

Surface: 1535'. None.

Intermediate and Production: 3100' -- 12000'. Intermediate and Production hole will be drilled with a 13-5/8" 10M three ram stack with a 5M annular preventer and a 5M Choke Manifold.

a. 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 surface casing shoe. A Multibowl wellhead system will be used in this well therefore the BOPE test will cover the test requirements for the Intermediate and Production sections. See COA

b. The Surface and Intermediate casings strings will be tested to 70% of their burst rating for 30 minutes. This will also test the seals of the lock down pins that hold the pack-off in place in the Multibowl wellhead system.

c. Pipe rams will be function tested every 24 hours and blind rams will be tested 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.

d. The BOPE test will be repeated within 21 days of the original test, on the first trip, if drilling the intermediate or production section takes more time than planned.

e. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5000 psi working pressure rating and tested to 5000 psi.

f. The Operator also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose manufactured by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose with a 10,000 psi working pressure. It has been tested to 15,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps (certifications attached). See COA

g. BOP & Choke manifold diagrams attached.

6. MUD PROGRAM:

See COA

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – ~~1535'~~ 1560' / 2900'	8.4 – 8.9	32 – 34	NC	Fresh Water /Spud Mud
~~1535' – 3100'~~	10.0-10.2	28 – 29	NC	Brine Water
~~3100' – 8000'~~	8.6 – 8.8	28 - 29	NC	Fresh Water
8000' – TD'	9.0 – 9.2	40 - 50	8 - 15	Salt Gel/Duo Vis

Remarks: 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.

Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

a. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.

8. POTENTIAL HAZARDS:

a. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6. See COA

b. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is 0.46 psi/ft. Maximum anticipated bottom hole pressure is between 5300 and 5400 psi.

c. 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.

9. 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 35 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.

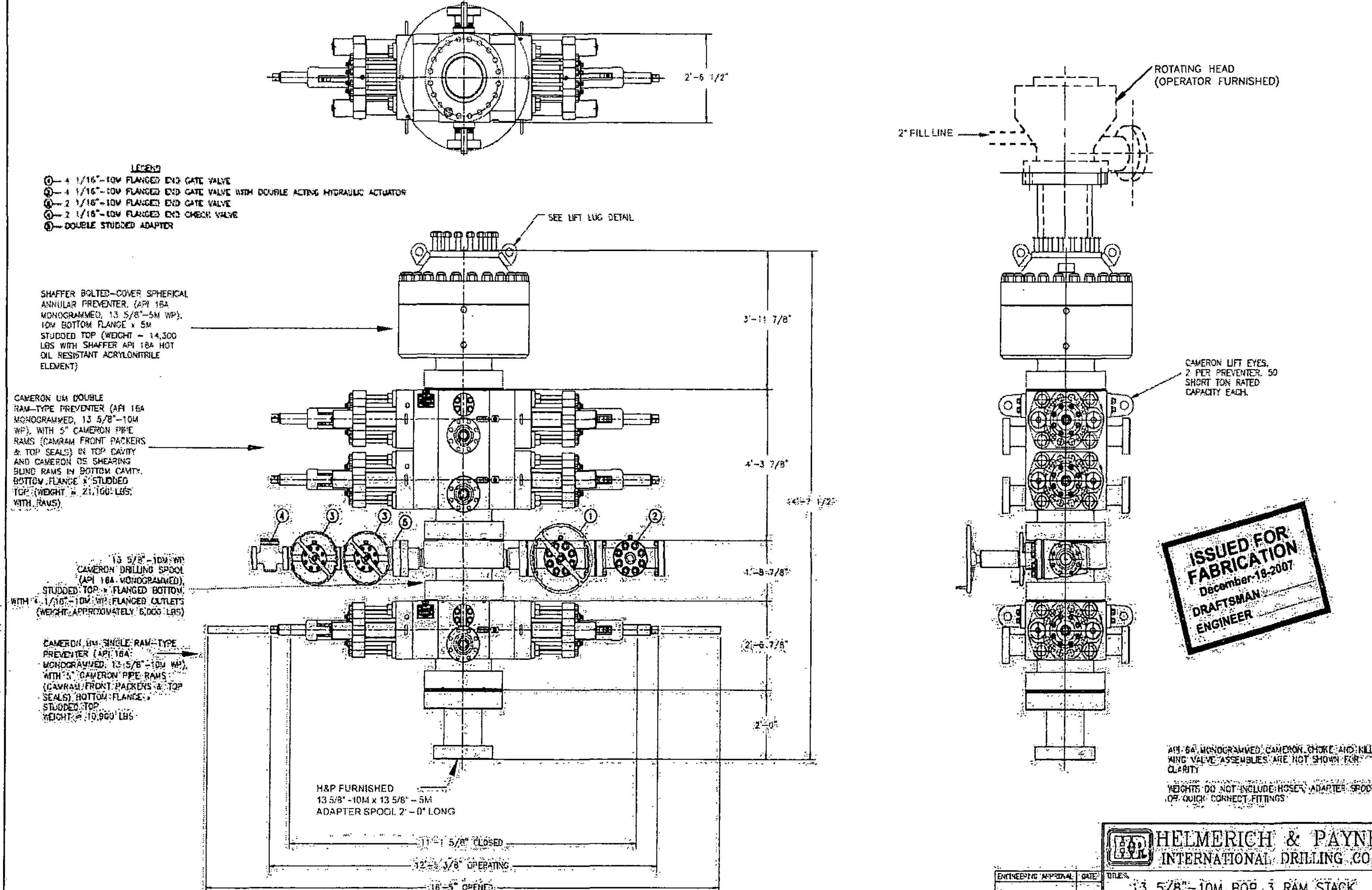
10. WIRELINE LOGGING / MUD LOGGING / LWD

a. Run wireline – Triple Combo
   1. GR, Den, Neu, Res, Sonic from TD to base of intermediate casing.
   2. GR, Neutron from TD to surface

b. Mud loggers to be rigged up from base of intermediate casing to TD

COMPANY PERSONNEL:

Name	Title	Office Phone	Mobile Phone
Carlos Mercado	Drilling Engineer	(713)366-5418	(281) 455-3481
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832)528-3268
Roger Allen	Drilling Superintendent	(713)215-7617	(281)682-3919
Oscar Quintero	Drilling Manager	(713)985-6343	(713)689-4946



13 5/8 – 10M BOP STACK
WITH 13 5/8 – 5M ANNULAR

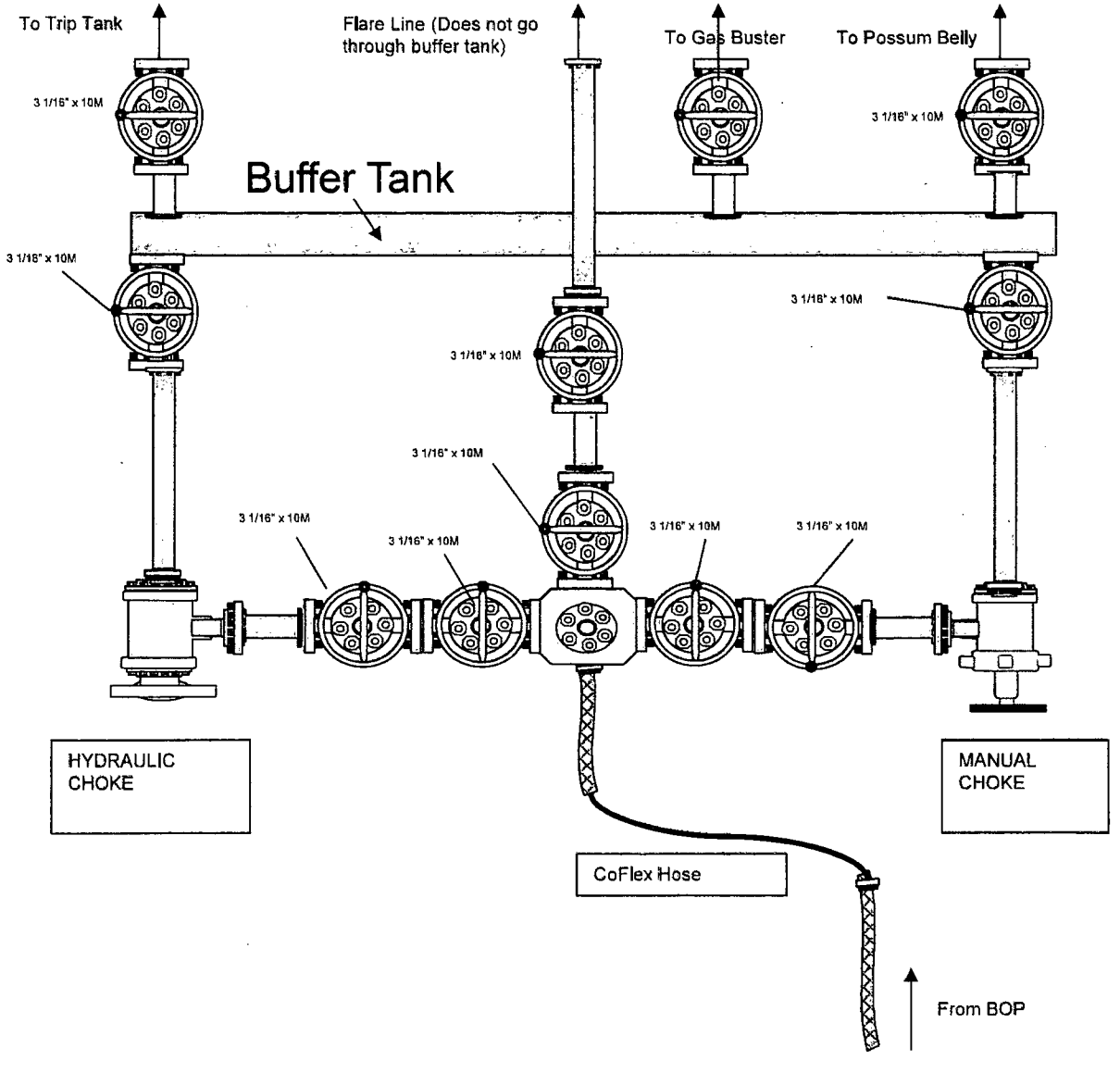
REV	DATE	DESCRIPTION	BY
E	12/18/07	ADDED SHEET 9S	JAW
D	4-19-07	DOUBLE STUDDED ADAPTER; VALVES 1, 2, 3, 4 AND 5 CHECK VALVE ADDED	JBG
C	4-24-07	1' ADDED TO SMALLER ADAPTER SPOOL	JBG
B	03-07-07	ADDED ADAPTER SPOOL	VAL
A	06-13-02	CORRECTED BOP STACK	VAL

ENGINEERING APPROVAL	DATE

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

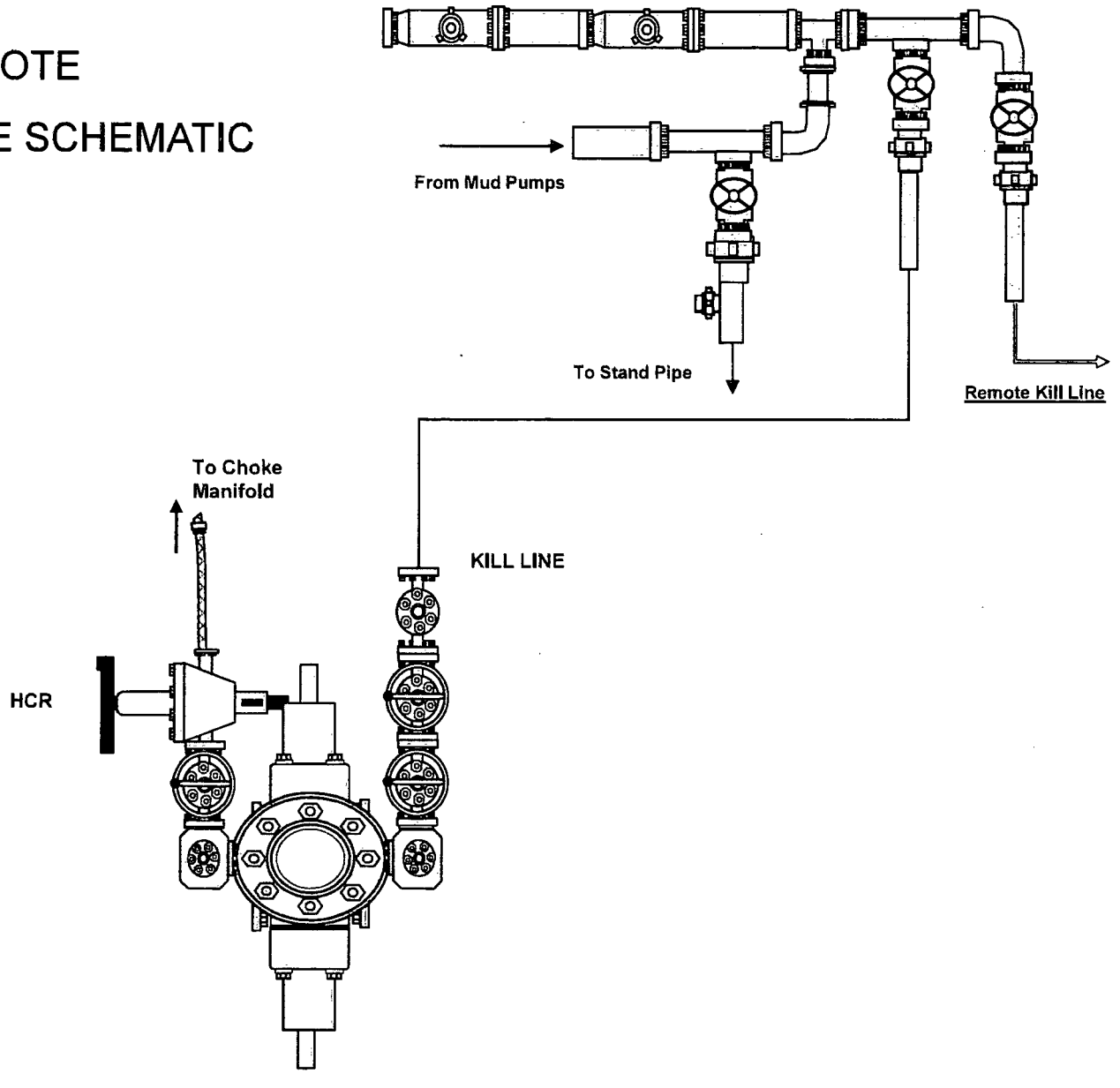
TITLE: 13 5/8"-10M BOP 3 RAM STACK FLEXRIG3			
CUSTOMER: H&P			
PROJECT: FLEXRIG3			
DRAWN: MTS	DATE: 6-5-02	DWG. NO.: 210-P1-07	REV: E
SCALE: 3/4"=1'	SHEET 1 OF 1		

FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)

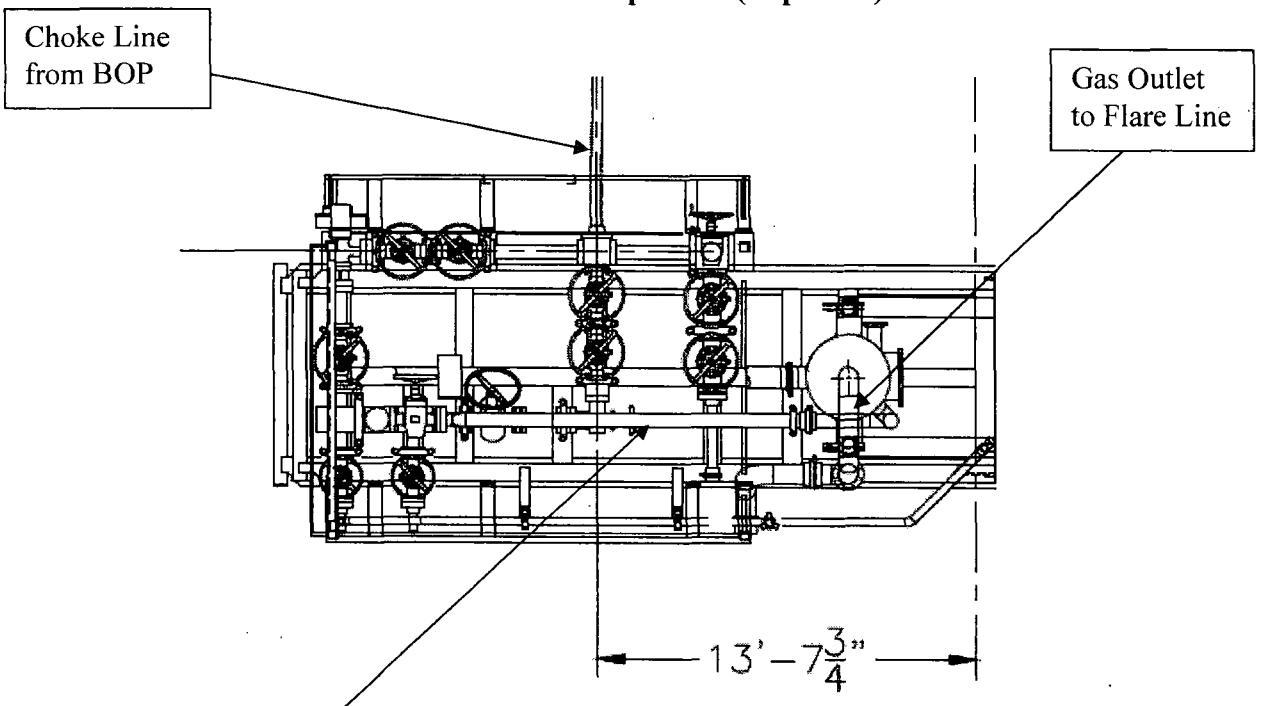


10M REMOTE

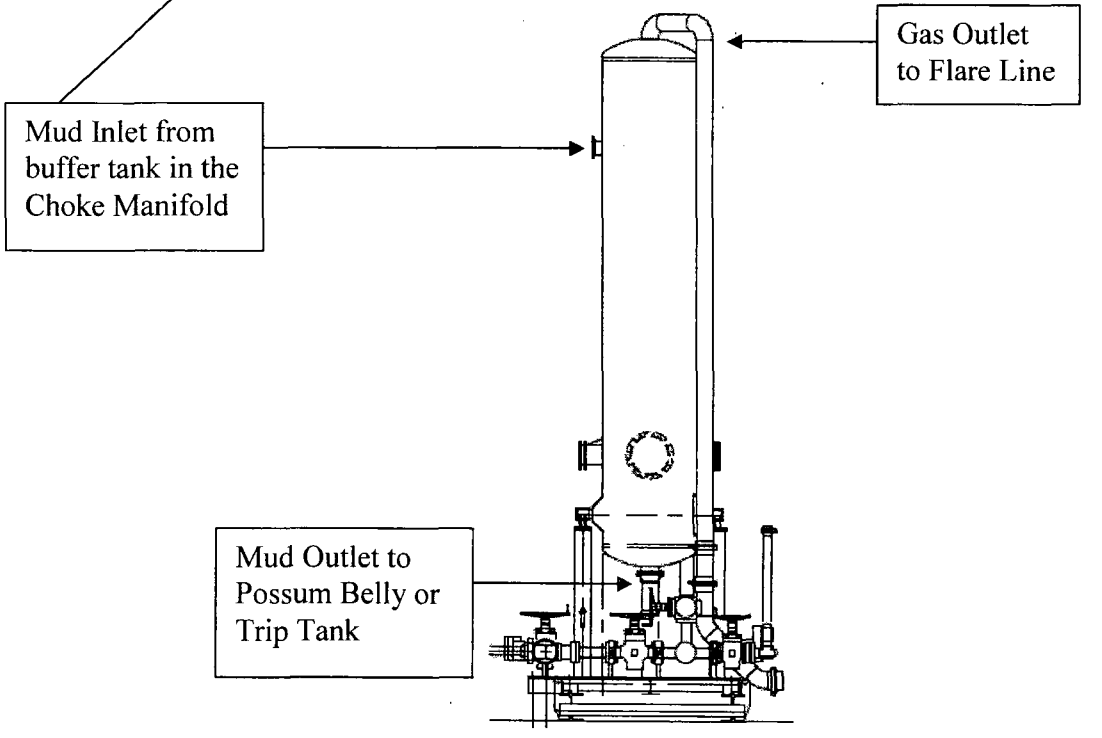
KILL LINE SCHEMATIC



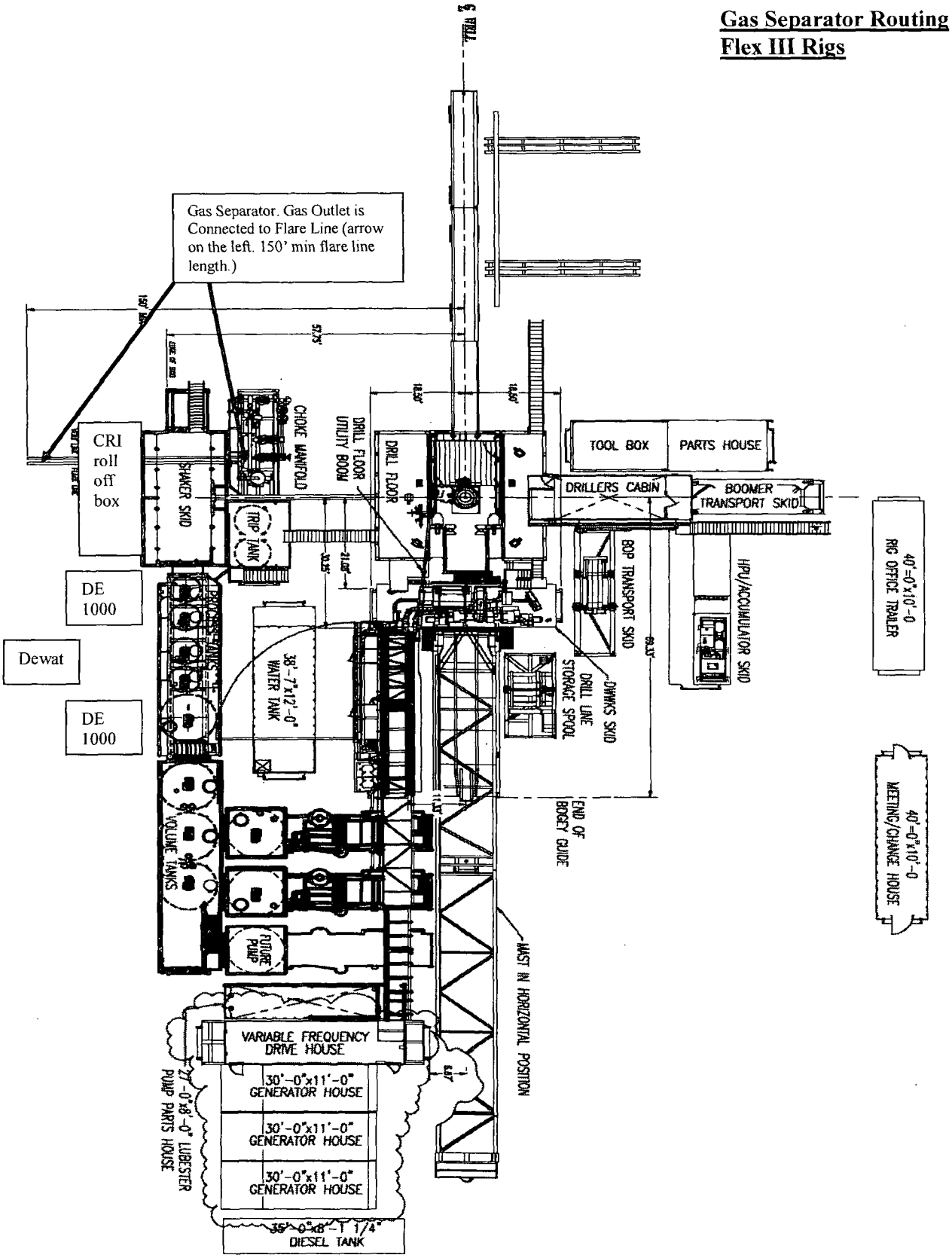
Choke Manifold – Gas Separator (Top View)



Choke Manifold – Gas Separator (Side View)



Gas Separator Routing
Flex III Rigs



Coflex Hose Certification

Continental CONTITECH

Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 746
PURCHASER: Phoenix Beattie 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	Heat N°
3" coupling with	917 913	AISI 4130	T7998A
4 1/16" Flange end		AISI 4130	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:	Inspector	Quality Control
04. April. 2008		ContiTech Rubber Industrial Kft. Quality Control Dept. (1)

Coflex Hose Certification

Form No 100/12

PHOENIX Beattie

Phoenix Beattie Corp
11535 Brittmoore 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...

Coflex Hose Certification

Form No 100/12

PHOENIX Beattie

Phoenix Beattie Corp
11535 Brittmoore 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	2

Customer / Invoice Address	Delivery / Address
HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119	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
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 : _____

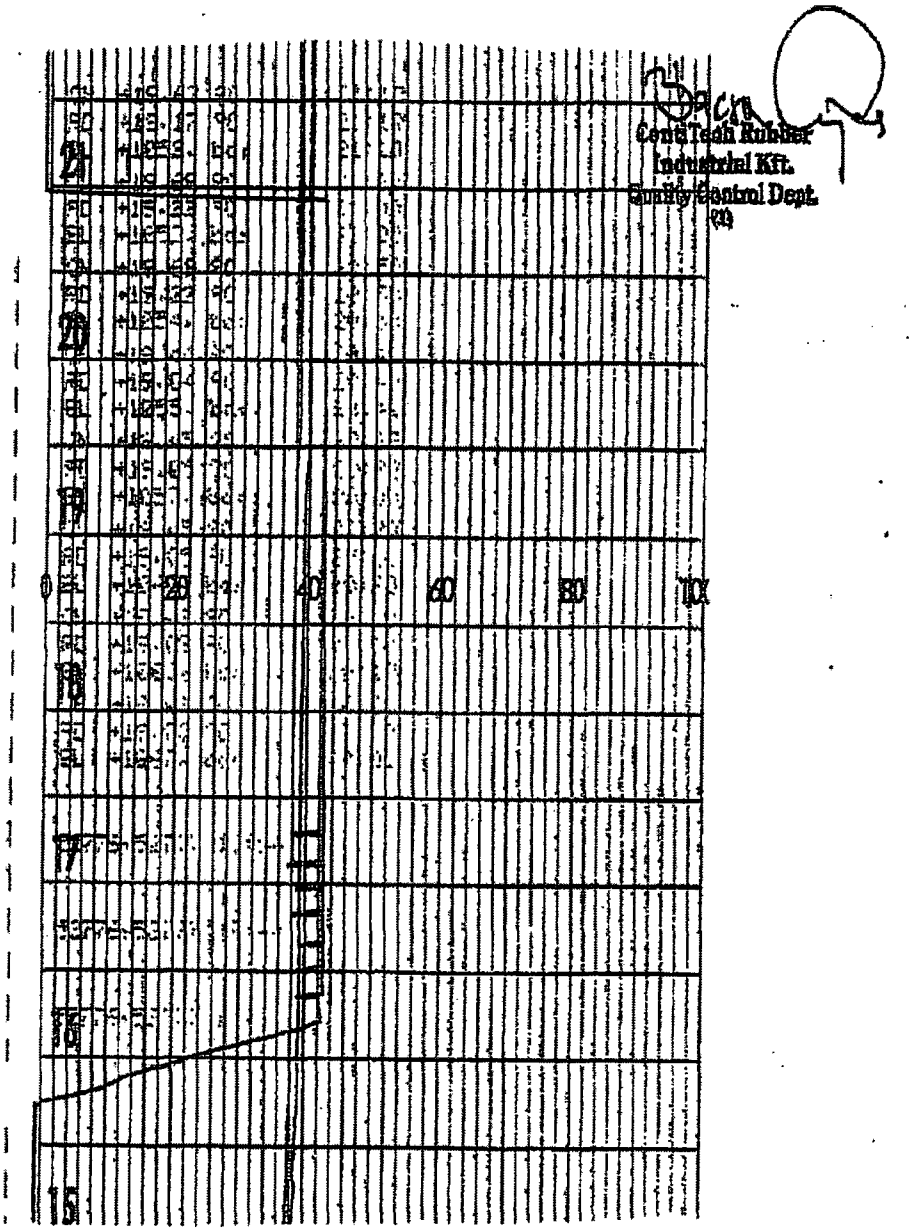
Received In Good Condition : Signature _____

Print Name _____

Date _____

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



PHOENIX Beattie

Material Identification Certificate

PA No	006330	Client	HELMERICH & PAYNE INT'L DRILLING	Client Ref	370-369-001	Page	1

Part No	Description	Material Desc	Material Spec	Qty	WO No	Batch No	Test Cert No	Bin No	Drg No	Issue No
HP10CX3A-35-4F1	3" 10K 16C C&K HOSE x 35ft OAL			1	2491	52777/H884		WATER		
SECX3-HPF3	LIFTING & SAFETY EQUIPMENT TO			1	2440	002440		N/STK		
SC725-200CS	SAFETY CLAMP 200MM 7.25T	CARBON STEEL		1	2519	H655		22C		
SC725-132CS	SAFETY CLAMP 132MM 7.25T	CARBON STEEL		1	2242	H139		22		

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.

05/23/08

Coflex Hose Certification

Continental CONTITECH

Fluid Technology

Quality Document

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 : .....

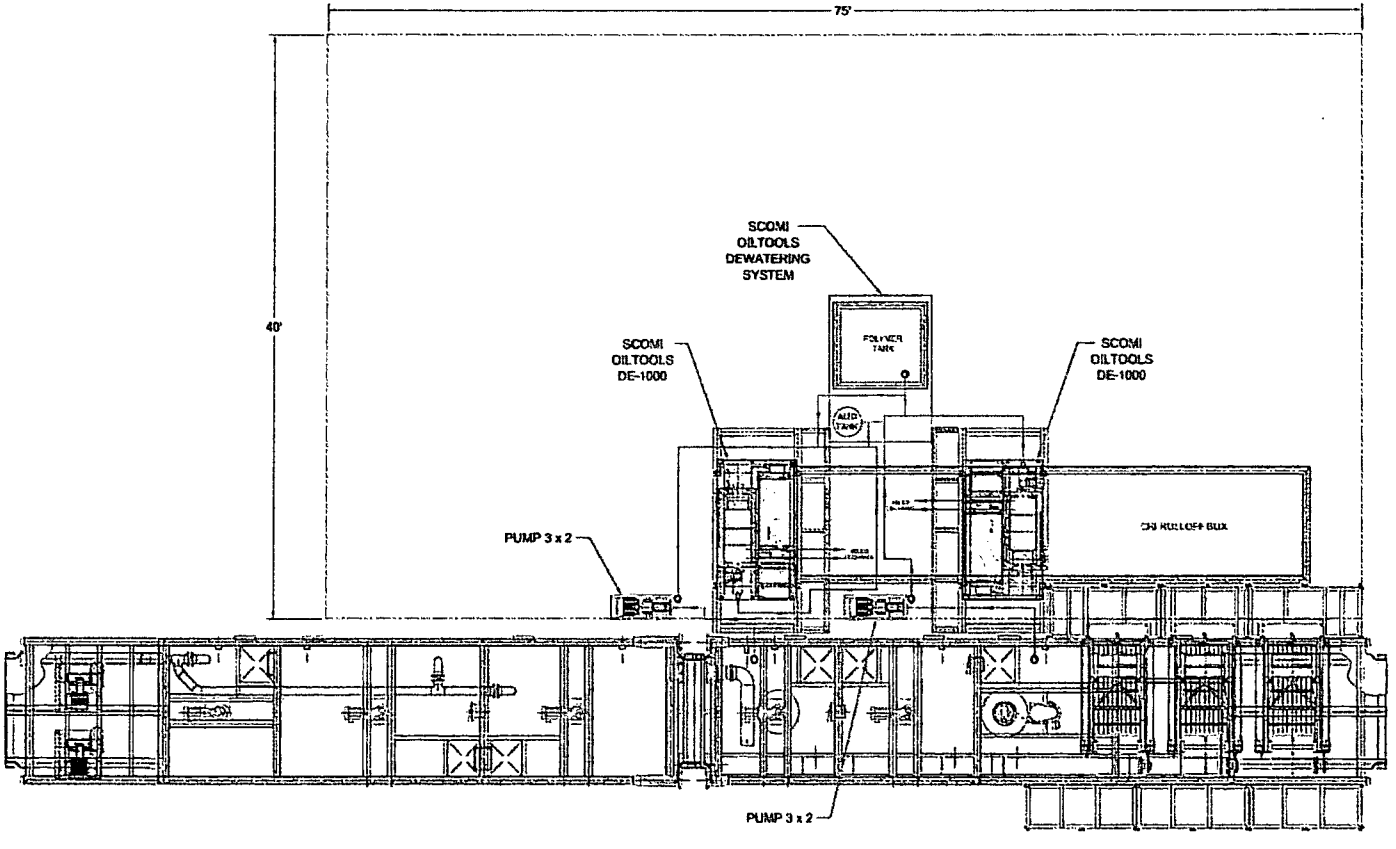
ContiTech Rubber Industrial Kft. Quality Control Dept. (3)

Date: 04. April. 2008

Position: Q.C. Manager

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT



1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36.
2. ALL PIPE SEAL AS MATERIAL SA 106 Gr. B
3. ALL FLANGES SHALL BE SCH. 160 & MATERIAL SA 105.
4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA 234 Gr. WPB
5. TANK INSPECTION SHALL BE IN ACCORDANCE WITH API-650

TITLE:
CLOSED LOOP SYSTEM
BASIC LAYOUT AND TIE IN
OXY - H&P - FLEX RIGS / PG 2 OF 2

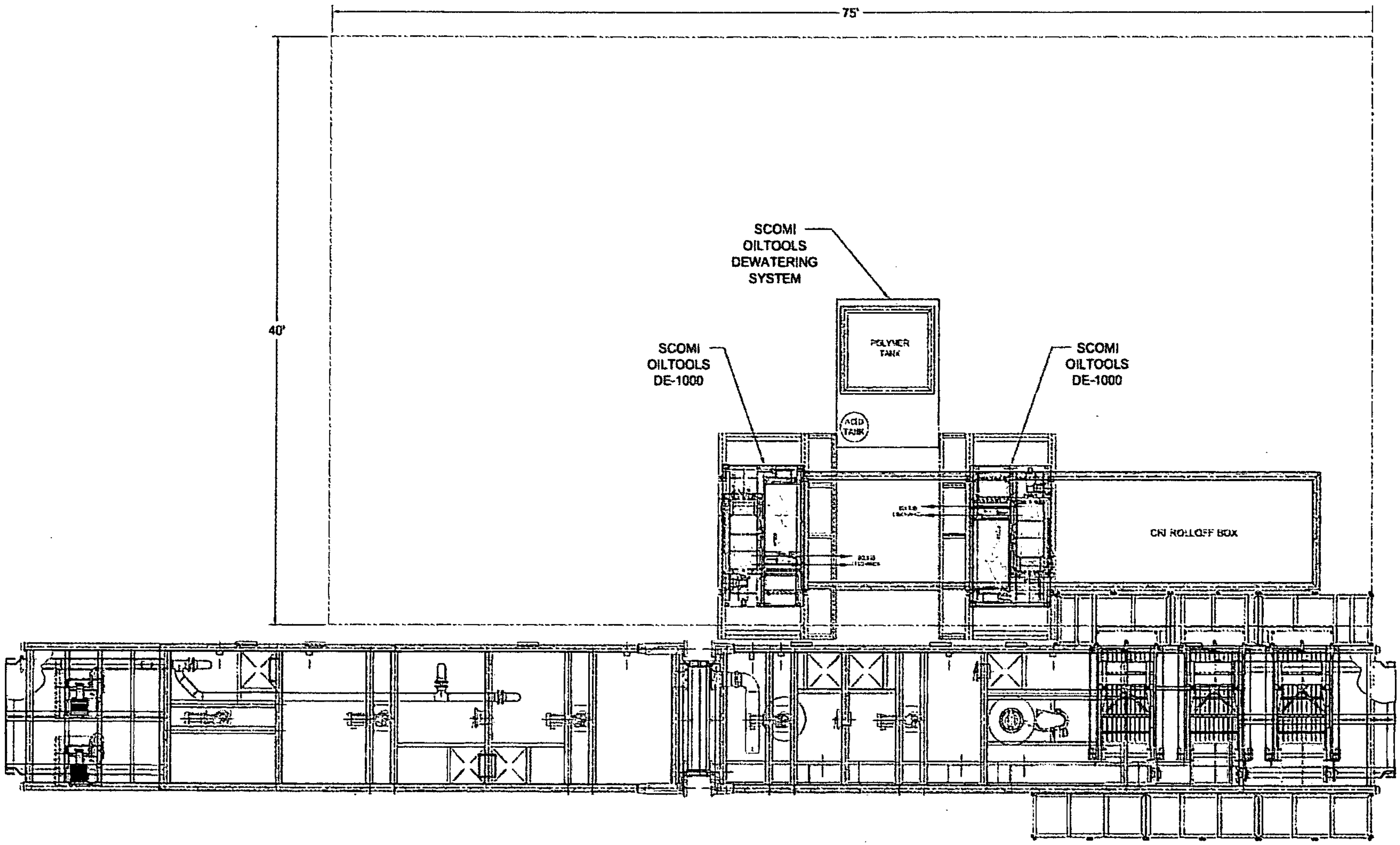
DRAWN BY	DATE
PD	10/30/08
APPROVED	DATE

SCALE	SHEET SIZE
NTS	D

Scomi

501 E. Sam Houston Parkway South, Suite 700,
Houston, Texas 77060
(281)-590-0911, FAX: (281)-590-0970

JOB NO.	DRAWING NO.	REV.
	521S-014	A



BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT

1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36.
2. ALL PIPE SCH. 40 MATERIAL SA 106 Gr. B
3. ALL FLANGES SHALL BE SCH. 150# & MATERIAL SA 105.
4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA 234 Gr. WPB
5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API-650

REV.	DESCRIPTION	BY	DATE
A	ADDED PAGE 2 TO SHOW PART		

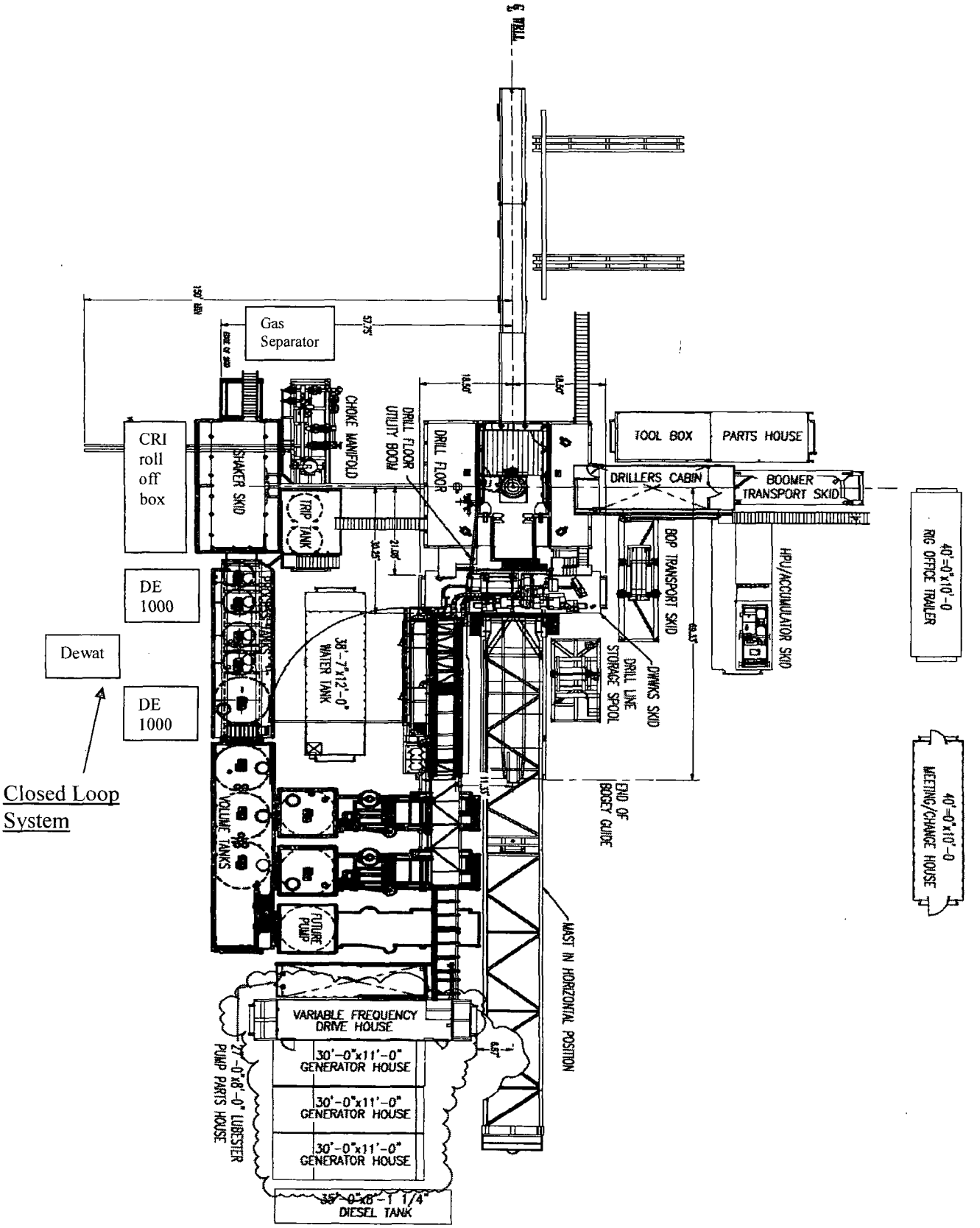
TITLE:

CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&P - FLEX RIGS / PG 1 OF 2

DRAWN BY	DATE	CHECKED BY	DATE
PTR.	10/30/02		
APPROVED	DATE	SCALE: NTS	SIZE: D

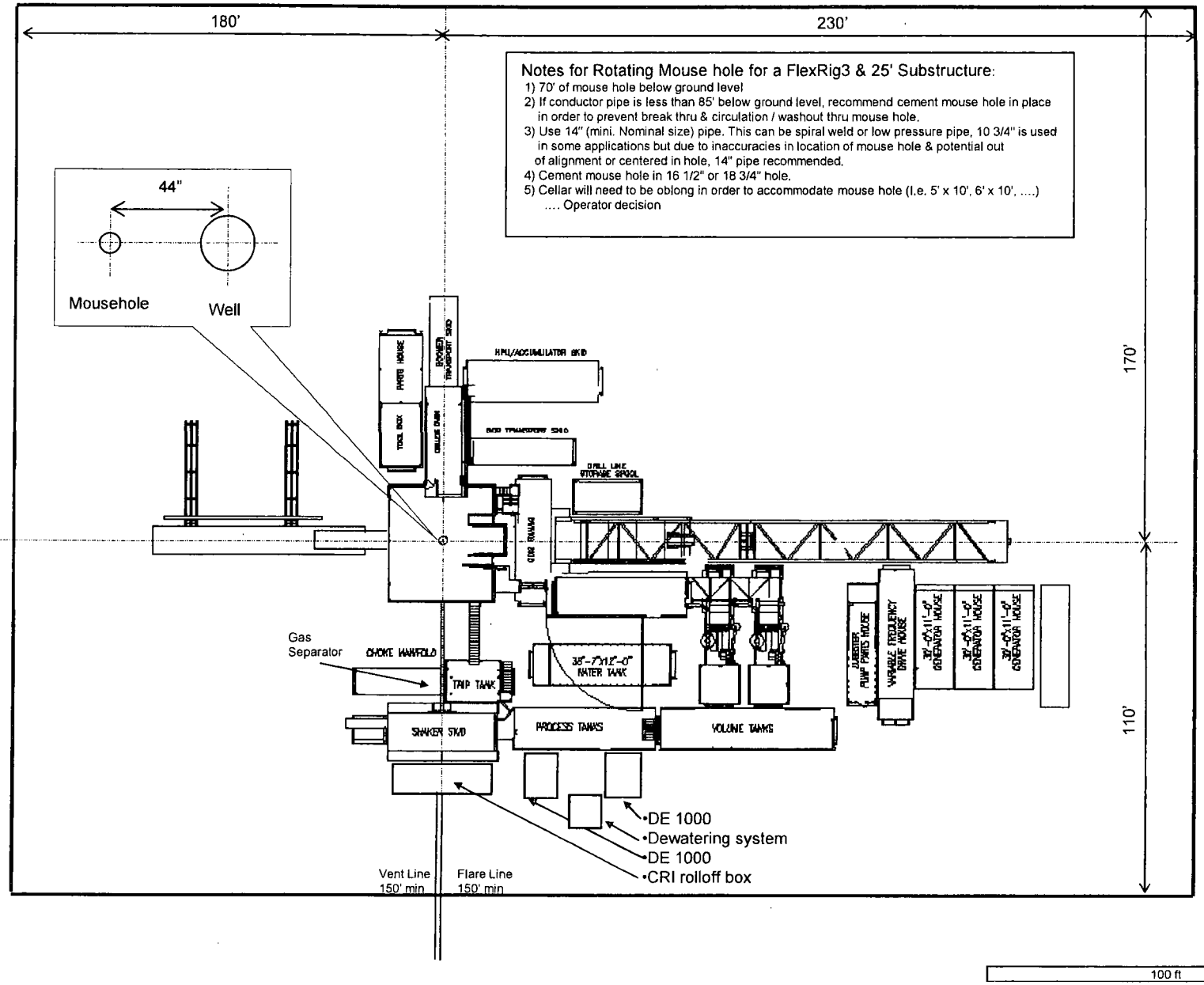
Scomi

JOB NO.	DRAWING NO.	REV.
	521S-014	A


Gas Separator
CRI roll off box
DE 1000
Dewat
DE 1000
Closed Loop System
SHAKER SKID
CHOKE MANIFOLD
TRIP TANK
DRILL FLOOR UTILITY BOOM
DRILL FLOOR
TOOL BOX
PARTS HOUSE
DRILLERS CABIN
BOOMER TRANSPORT SKID
BOP TRANSPORT SKID
HPU/ACCUMULATOR SKID
DRILL LINE STORAGE SPOOL
DWKKS SKID
40'-0"x10'-0 RIG OFFICE TRAILER
40'-0"x10'-0 MEETING/CHANGE HOUSE
38'-7"x12'-0" WATER TANK
VOLUME TANKS
FUTURE PUMP
END OF BOOEY GUIDE
MAST IN HORIZONTAL POSITION
VARIABLE FREQUENCY DRIVE HOUSE
30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE
30'-0"x11'-0" GENERATOR HOUSE
27'-0"x8'-0" LUBESTER PUMP PARTS HOUSE
35'-0"x8'-1 1/4" DIESEL TANK

OXY FLEX III PAD (SCOMI Closed Loop System)

Level Area-No Caliche-For Offices and Living Quarters



New Mexico Drilling Daily Circulating System Inspection For Closed Loop Systems

Wellname:		Permit #:		Rig Mobe Date:	
County:				Rig Demobe Date:	

Inspection Date	Time	By Whom	Any drips or leaks from steel tanks, lines or pumps not contained?* Explain.	Has any hazardous waste been disposed of in system?

All circulating systems to be inspected DAILY during drilling operations.
***Any leak of the steel tanks, lines or pumps shall be reported to the NMOCD and repaired within 48 hours.**