Form 3160-3
(March 2012)

OCD Hobbs
HOBBS OCD
DEC 30 2015
RECEIVED

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

14-735

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: S-NMNM110841 - BH-NMNM126974

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: ~~Madera 17 Federal Com. #2H~~ (313144)

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

8. Lease Name and Well No.: Madera 17 Federal Com. #2H

2. Name of Operator: OXY USA Inc. (16696) 16696

9. API Well No.: ~~30-015~~ 30-025-43000

3a. Address: P.O. Box 50250, Midland, TX 79710

3b. Phone No. (include area code): 432-685-5717

10. Field and Pool, or Exploratory: Jabalina Delaware, Southwest (97597)

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

At surface: 330 FNL 400 FEL NENE(A)

At proposed prod. zone: 350 FSL 400 FEL SESE(P)

11. Sec., T. R. M. or Blk. and Survey or Area: Sec 17 T26S R35E

14. Distance in miles and direction from nearest town or post office*: 10 miles southwest from Jal, 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: 600ac

17. Spacing Unit dedicated to this well: 160ac

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 1840'

19. Proposed Depth: 9258'V 13553'M

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 3223.6' GR

22. Approximate date work will start*: 04/01/2015

23. Estimated duration: 35 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: [signature] Name (Printed Typed): David Stewart Date: 4/17/14

Title: Sr. Regulatory Advisor david_stewart@oxy.com

Approved by (Signature): Steve Caffey Name (Printed Typed): Date: DEC 18 2015

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)

Carlsbad Controlled Water Basin

KZ 12/31/15

KPERM KO

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

JAN 04 2016

OXY USA Inc
Madera 17 Federal #2H
APD Drilling Data

OPERATOR NAME / NUMBER: OXY USA Inc 16696

LEASE NAME / NUMBER: Madera 17 Federal Com. #2H **Federal Lease No:** S-NMNM110841
BH-NMNM126974

STATE: NM **COUNTY:** Lea

POOL NAME/NUMBER: Jabalina Delaware, Southwest 97597

SURFACE LOCATION: 330 FNL 400 FEL NENE(A) Sec 17 T26S R35E
SL: LAT: 32.0495180N LONG:103.3817730W X:794826.0 Y:383039.2 NAD: 27

BOTTOM HOLE LOCATION: 350 FSL 400 FEL SESE(P) Sec 17 T26S R35E
SL: LAT: 32.0368666N LONG:103.3817560W X:794871.8 Y:378436.9 NAD: 27

APPROX GR ELEV: 3223.6' **EST KB ELEV:** 3248' (24.4' KB-GL)

1. **GEOLOGIC NAME OF SURFACE FORMATION**
   a. Permian

2. **ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS**

Formation	TVD - RKB	Expected Fluids
T. Rustler	1078	--
T. Salt	1518	--
T. Delaware Lamar / B. Anhydrite	5328	--
T. Bell Canyon	5373	Form Water
T. Cherry Canyon	6338	Oil/Gas
T. Brushy Canyon	7938	Oil/Gas
Target Brushy Canyon Sand	**9258**	**Oil/Gas**
T. BSPG	9328	Oil/Gas

- **Fresh water may be present above the Rustler formation. Surface casing will be set below the top of the Rustler to protect any possible fresh water.** @ least 25'

GREATEST PROJECTED TD HZ: 13553'MD / 9258'TVD **OBJECTIVE:** Brushy Canyon

3. **CASING PROGRAM**

New Surface Casing ran in hole filled with 8.50 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
14.75	~~1100~~ 1180	11.75	42	H40	BTC	11.090	New	1966	1018	1.41	2.34	3.39

See COA

New Intermediate Casing ran in hole filled with 10.2 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
10.625	5350	8.625	32	J55	LTC	7.921	New	3928	2533	1.22	3.54	1.71

New Production Casing ran in hole filled with 9.0 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	**Burst SF**	**Coll SF**	**Ten SF**
7.875	13553	5.500	17	L80	BTC	4.892	New	7738	6285	1.22	1.44	1.69

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 pressure + 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
Lead: 0' – 600' (150% Excess)	410	600	Premium Plus cement with 1% Calcium Chloride – Flake (Accelerator), 4 % Bentonite (Light Weight Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	9.12	13.5	1.73	1000
Tail: 600' – 1100' (150% Excess)	410	500	Premium Plus cement with 2 % Calcium Chloride - Flake (Accelerator)	6.39	14.8	1.35	1326

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Lead: 0' – 4850' (100% Excess)	1010	4850	Halliburton Light Premium Plus Cement with 5% Salt (Accelerator), 0.125 lbs/sk Poly-E-Flake (Lost Circulation additive), 5 lbs/sk Kol-Seal (Lost Circulation Additive), 0.35 % HR-800 (Retarder)	9.60	12.9	1.88	500
Tail: 4850' – 5350' (100% Excess)	160	500	Premium Plus cement with 0.5 % WellLife 734 (Cement Enhancer)	6.36	14.8	1.33	1586

Production Casing

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Lead: 4350' – 9600' (100% Excess)	620	5250	Tuned Light Cement 10.5-11.0 ppg (<3kpsi), 75.2 lbm/sk Premium Cement with 14.8 lbs/sk Silicalite 50/50 Blend (Additive Material), 15 lbs/sk Scotchlite HGS-6000 (Light Weight Additive), 0.5 lbs/sk CFR-3 (Dispersant), 0.15 lbs/sk WG-17 (Gelling Agent), 1 lbs/sk Cal-Seal 60 (Accelerator), 1.5 lbs/sk Salt (Accelerator) and 2 % Calcium Chloride - Flake (Accelerator)	12.45	10.6	2.69	429 (500psi in 29 hrs)
Tail: 9600' – 13553' (40% Excess)	600	3953	Super H Cement with 0.125 lbs/sk Poly-E-Flake (Lost Circulation Additive), 3 lbs/sk Kol-Seal (Lost Circulation Additive), 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.4 % CFR-3 (Dispersant), 0.2 % HR-601 (Retarder) and 3 lbs/sk Salt (Accelerator)	8.40	13.2	1.66	1673

The volumes indicated above may be revised depending on caliper measurement.

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0' – 1100' None.

Intermediate and Production: 1100' MD/TVD – 13553' MD / 9258' TVD. 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 psi 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 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).
g. BOP & Choke manifold diagrams attached.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0' – 1100' 1180	8.5	28 – 38	NC	Fresh Water / Spud Mud
1100' – 5350'	10.2	28 – 32	NC	Fresh Water / NaCl Brine
5350' – 8540'	9.0	28 – 34	NC	Cut Brine / Sweeps
8540' – 13553'	9.0	32 – 50	< 18	Duo Vis / Salt Gel / Starch / PAC

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.

8. 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.

b. 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. **If Hydrogen Sulfide is encountered , measured amounts and formations will be reported to the BLM.**

9. 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.
b. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.447 psi/ft.** Maximum anticipated bottom hole pressure is **4140 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.

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 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.

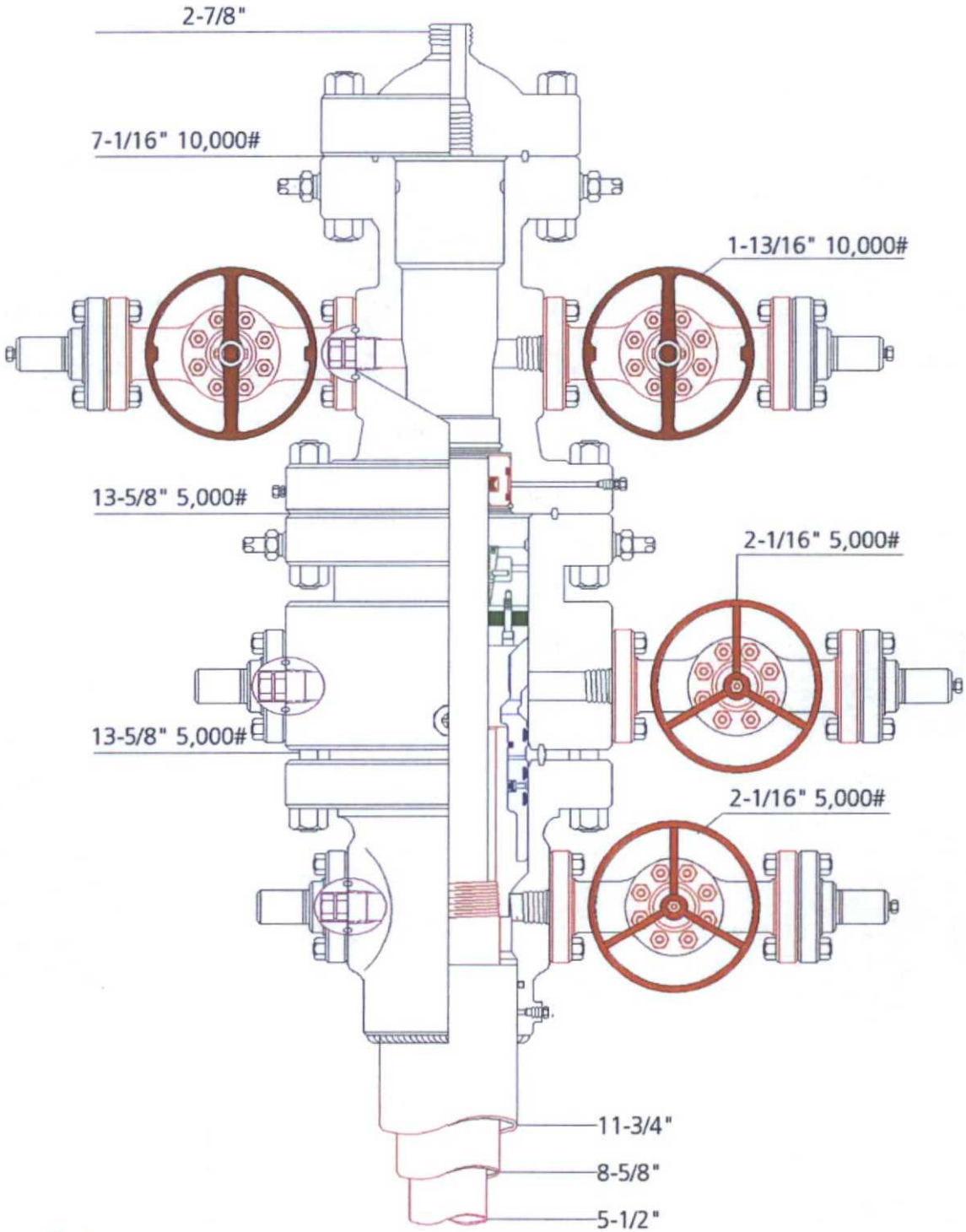
11. WIRELINE LOGGING / MUD LOGGING / LWD

a. Wireline Logging: Platform Express Quad combo from Int. casing shoe to Landing Point.
b. Mud loggers to be rigged up from surface casing shoe to TD.
c. Acquire GR while drilling, from Intermediate casing shoe to TD.

COMPANY PERSONNEL:

Name	Title	Office Phone	Mobile Phone
Anthony Tschacher	Drilling Engineer	(713)985-6949	(832) 270-6883
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

BOP-2

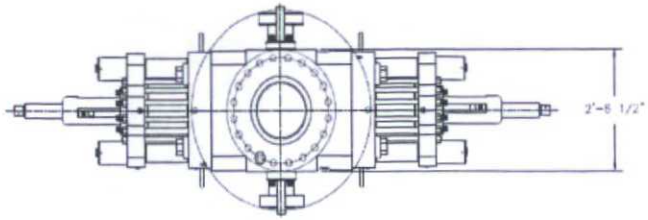


OXY

Permian Basin
MBS

CAMERON

Name: Jeanette	Date: 1-31-13	Working Pressure: #	21073221



LEGEND
1. 4 1/16"-10M FLANGED END GATE VALVE
2. 4 1/16"-10M FLANGED END GATE VALVE WITH DOUBLE ACTING HYDRAULIC ACTUATOR
3. 2 1/16"-10M FLANGED END GATE VALVE
4. 2 1/16"-10M FLANGED END CHECK VALVE
5. DOUBLE STUDDED ADAPTER

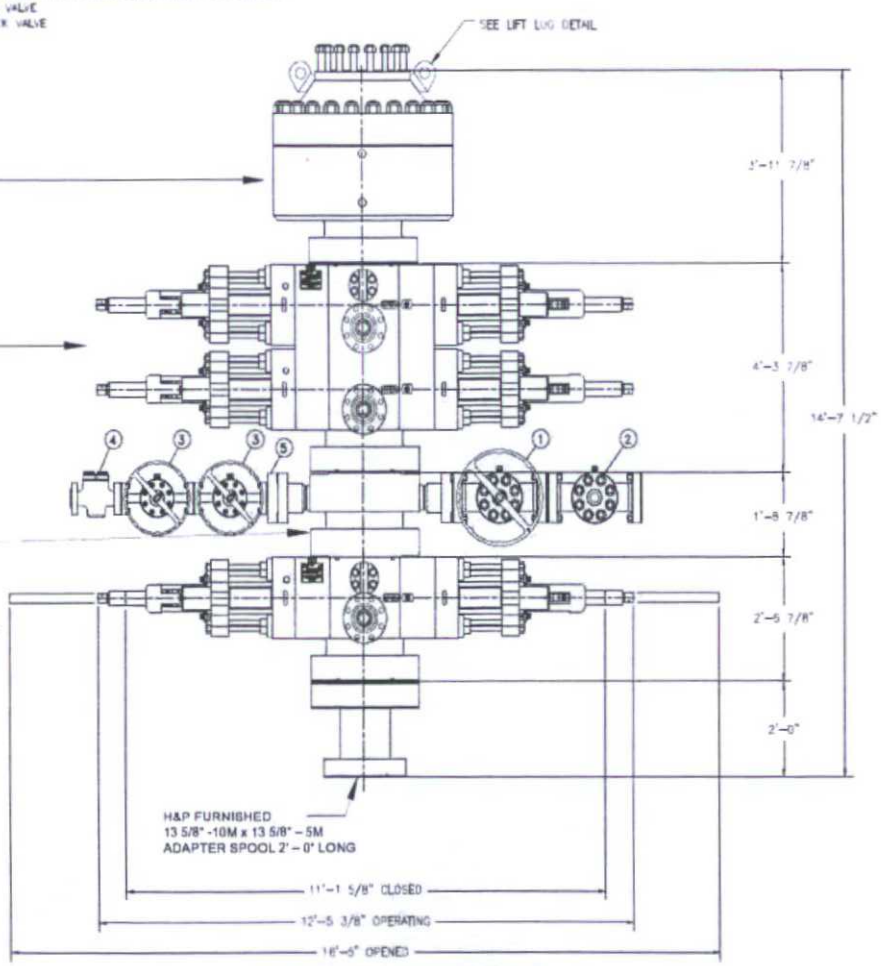
SHAFFER BOLTED-COVER SPHERICAL ANNULAR PREVENTER, (API 16A MONOGRAMMED, 13 5/8"-5M WP), 10M BOTTOM FLANGE x 5M STUDDED TOP (WEIGHT = 14,300 LBS WITH SHAFFER API 16A HOT OIL RESISTANT ACRYLONITRILE ELEVENT)

CAMERON UM DOUBLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) IN TOP CAVITY AND CAMERON DS SHEARING BLIND RAMS IN BOTTOM CAVITY. BOTTOM FLANGE x STUDDED TOP (WEIGHT = 21,100 LBS. WITH RAMS)

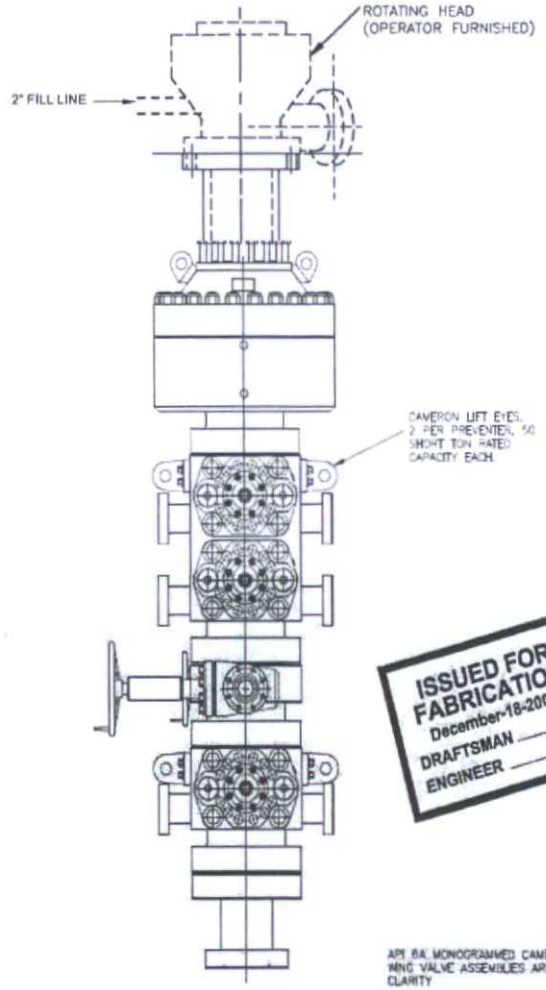
13 5/8"-10M WP CAMERON DRILLING SPOOL (API 16A MONOGRAMMED), STUDDED TOP x FLANGED BOTTOM WITH 4 1/16"-10M WP FLANGED OUTLETS (WEIGHT APPROXIMATELY 6,000 LBS)

CAMERON UM SINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT PACKERS & TOP SEALS) BOTTOM FLANGE x STUDDED TOP WEIGHT = 10,900 LBS

SEE LIFT LUG DETAIL



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



ISSUED FOR FABRICATION
December-18-2007
DRAFTSMAN
ENGINEER

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

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

REV	DATE	DESCRIPTION	BY	ENGINEERING APPROVAL	DATE
5	12/18/07	ADDED SHEET 03	JAV		
4	6-10-07	DIMENSIONS REVISED, DOUBLE STUDDED ADAPTER, VALVES 1, 2, & 3, AND HC CHECK VALVE ADDED	JSG		
3	4-04-07	5" ADDED TO SPACER ADAPTER SPOOL	JSG		
2	02-07-07	ADDED ADAPTER SPOOL	WHL		
1	06-13-02	CORRECTED BOP STACK	WHL		

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

TITLE: 13 5/8"-10M BOP 3 RAM STACK FLEXRIG3

CUSTOMER: H&P

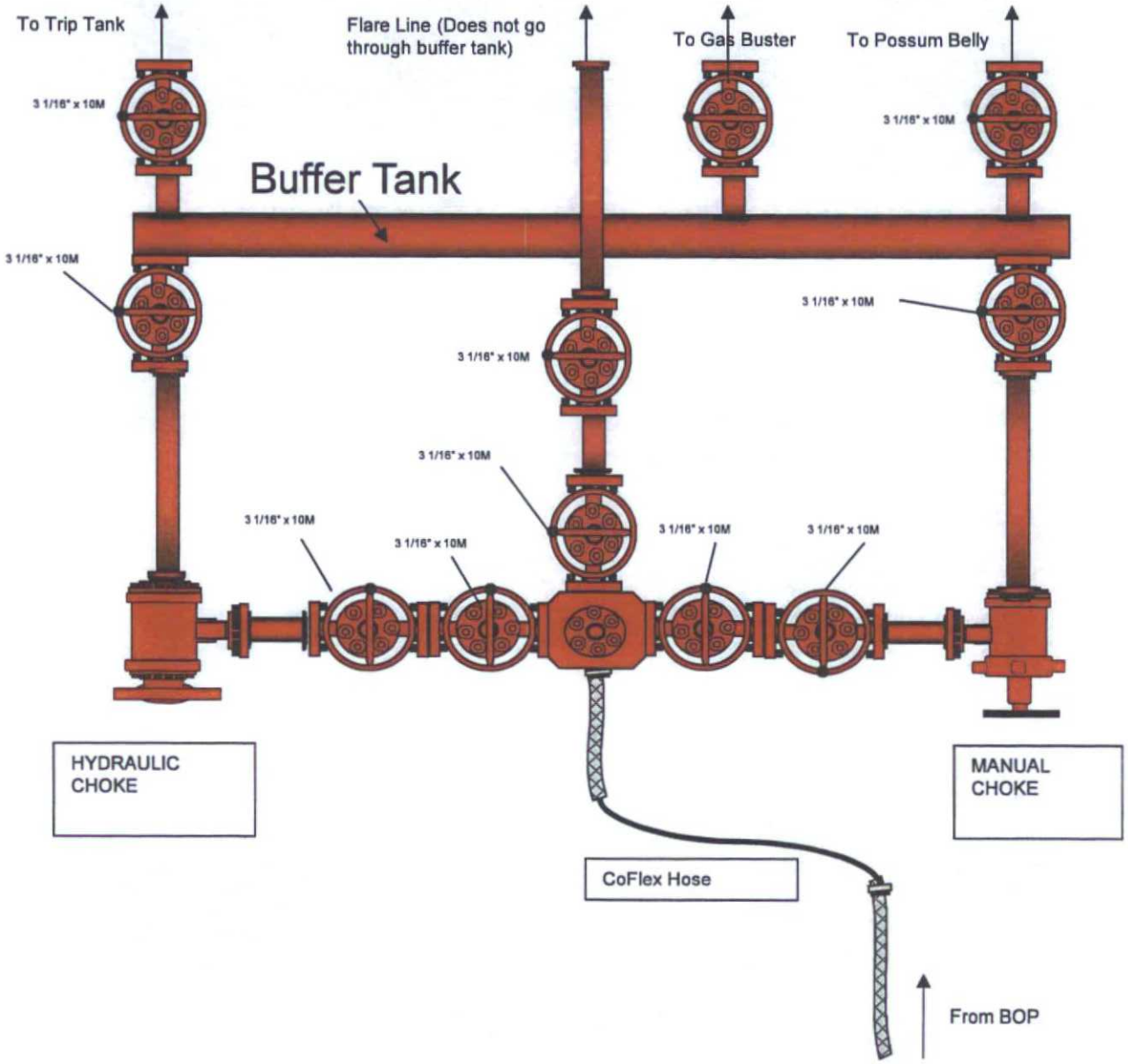
PROJECT: FLEXRIG3

DRAWN: MTS | DATE: 6-5-02 | DWG. NO. 210-P1-07 | REV. E

SCALE: 3/4"=1' | SHEET: 1 OF 3

BOP-1

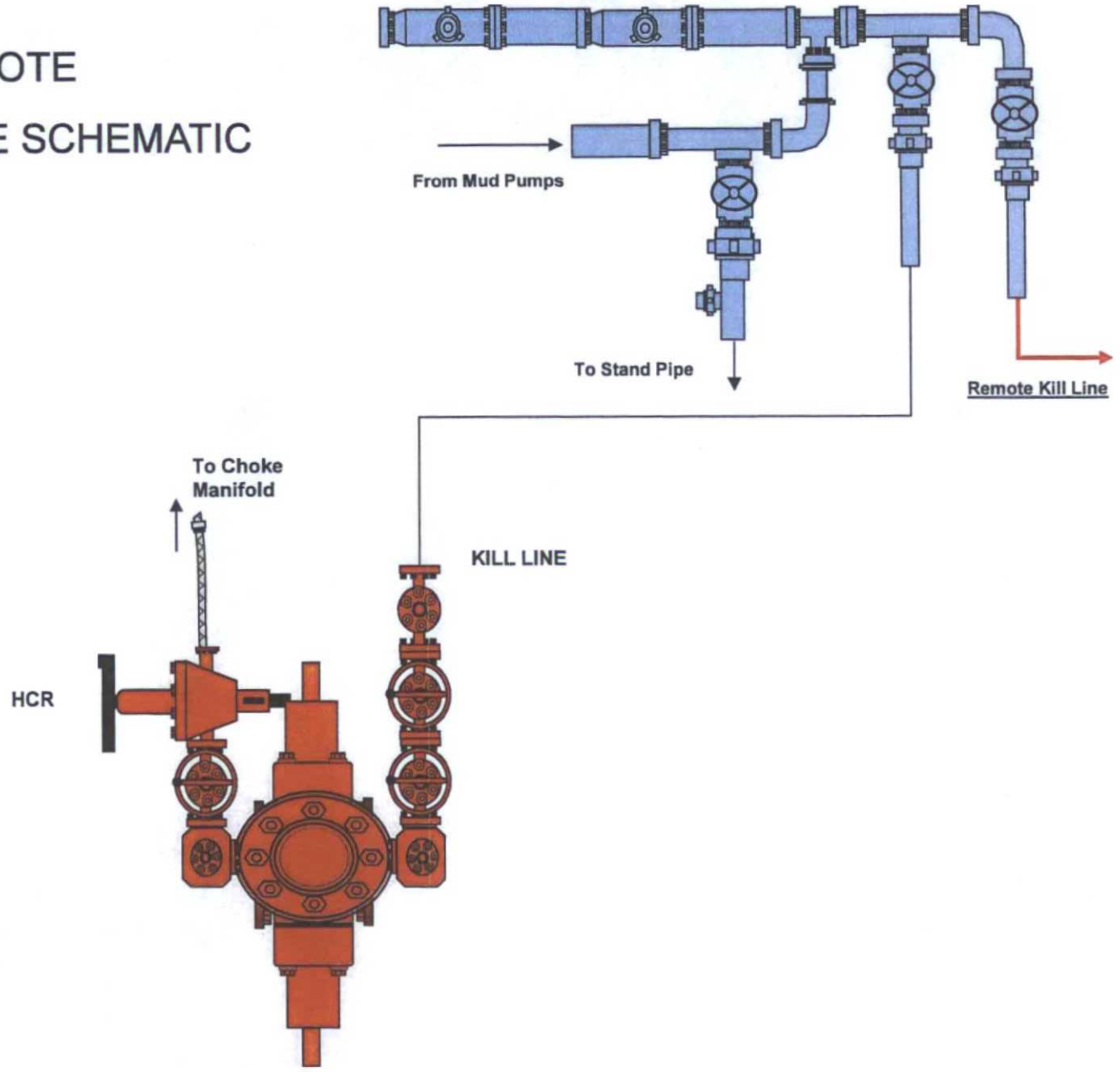
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



CM-1

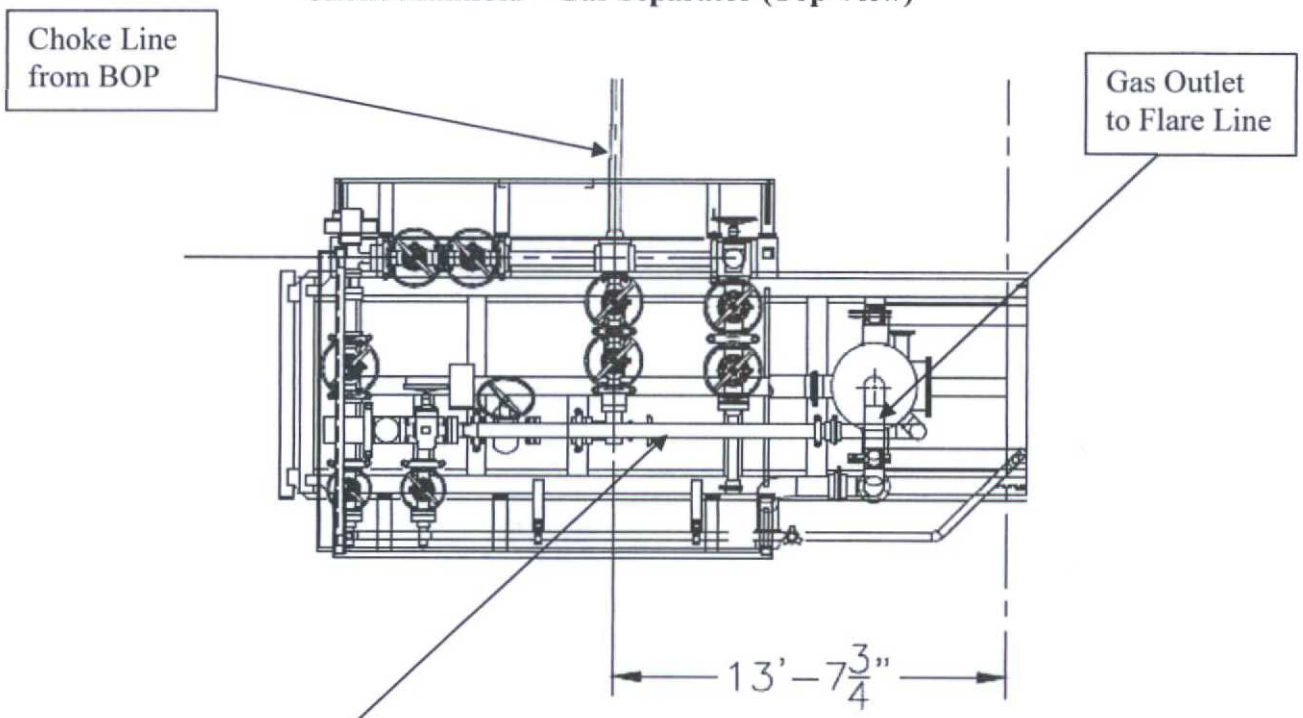
10M REMOTE

KILL LINE SCHEMATIC

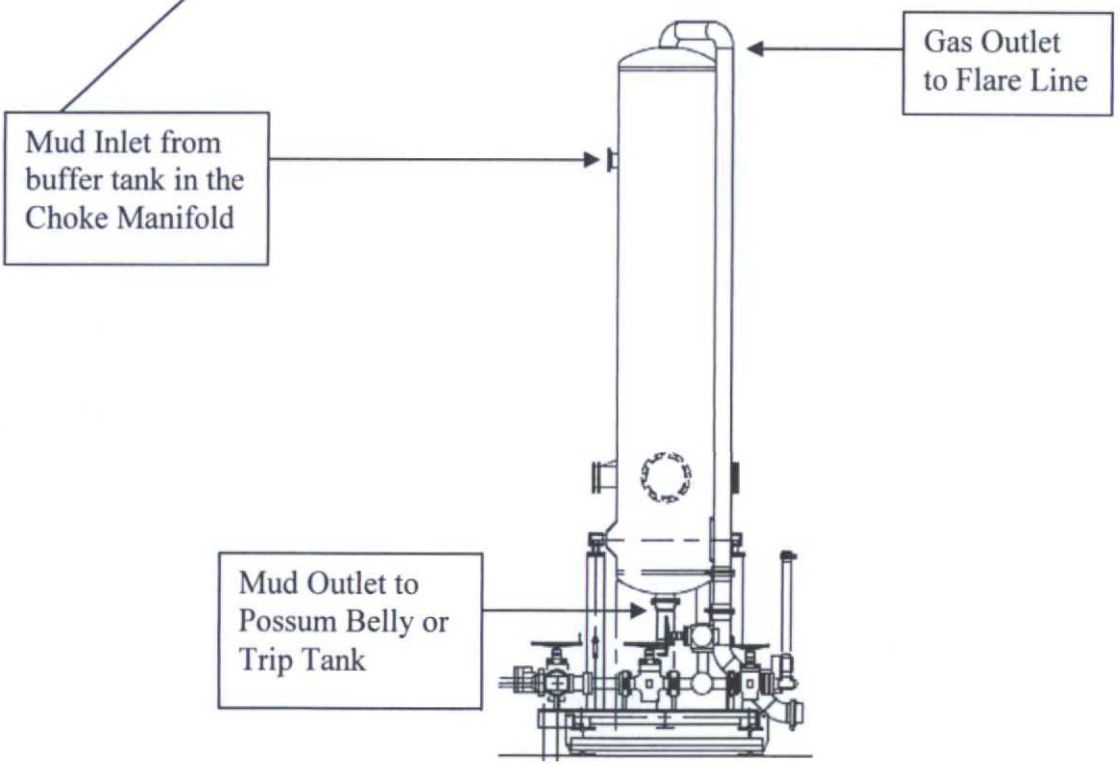


CH-2

Choke Manifold – Gas Separator (Top View)

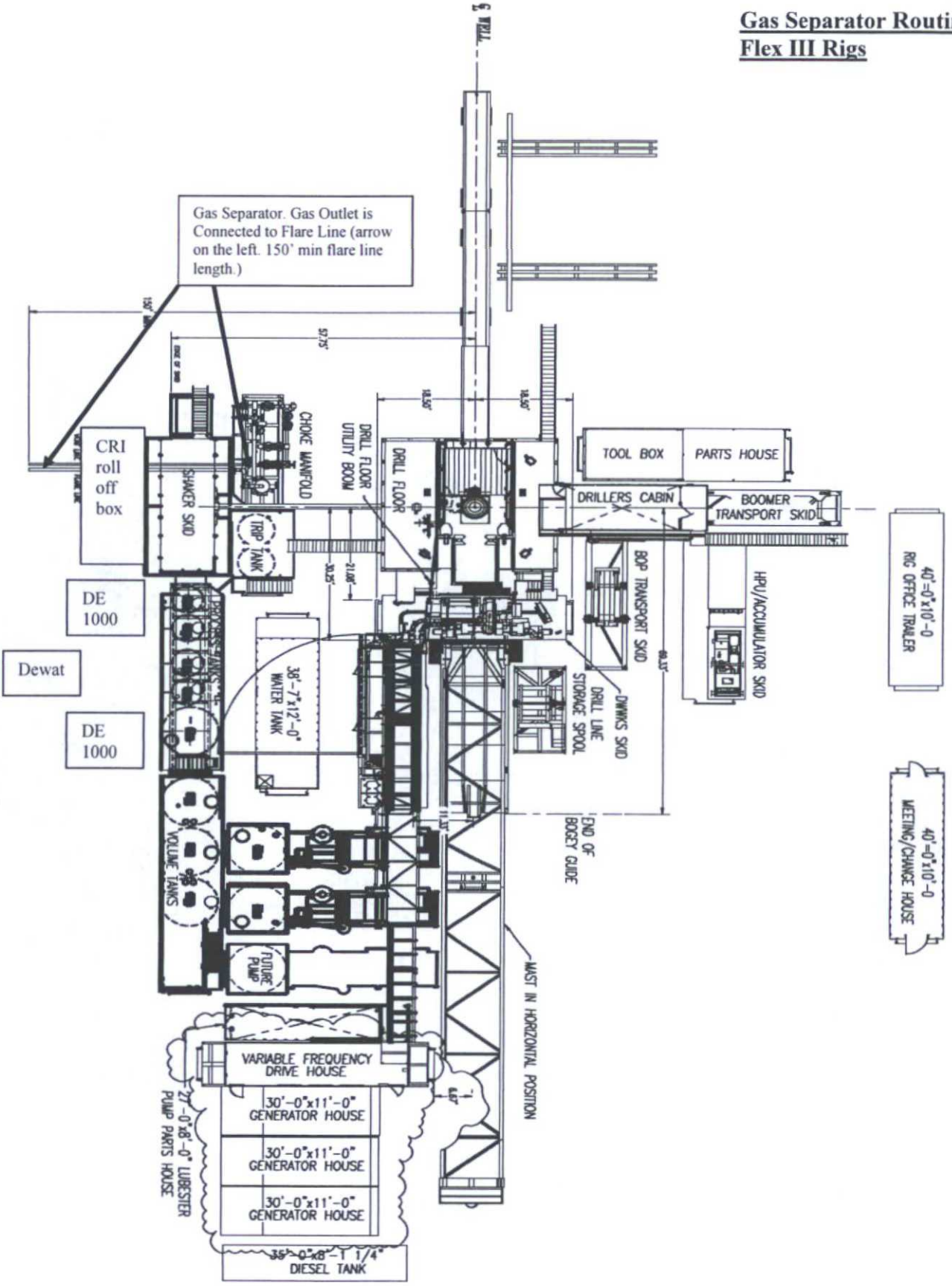


Choke Manifold – Gas Separator (Side View)

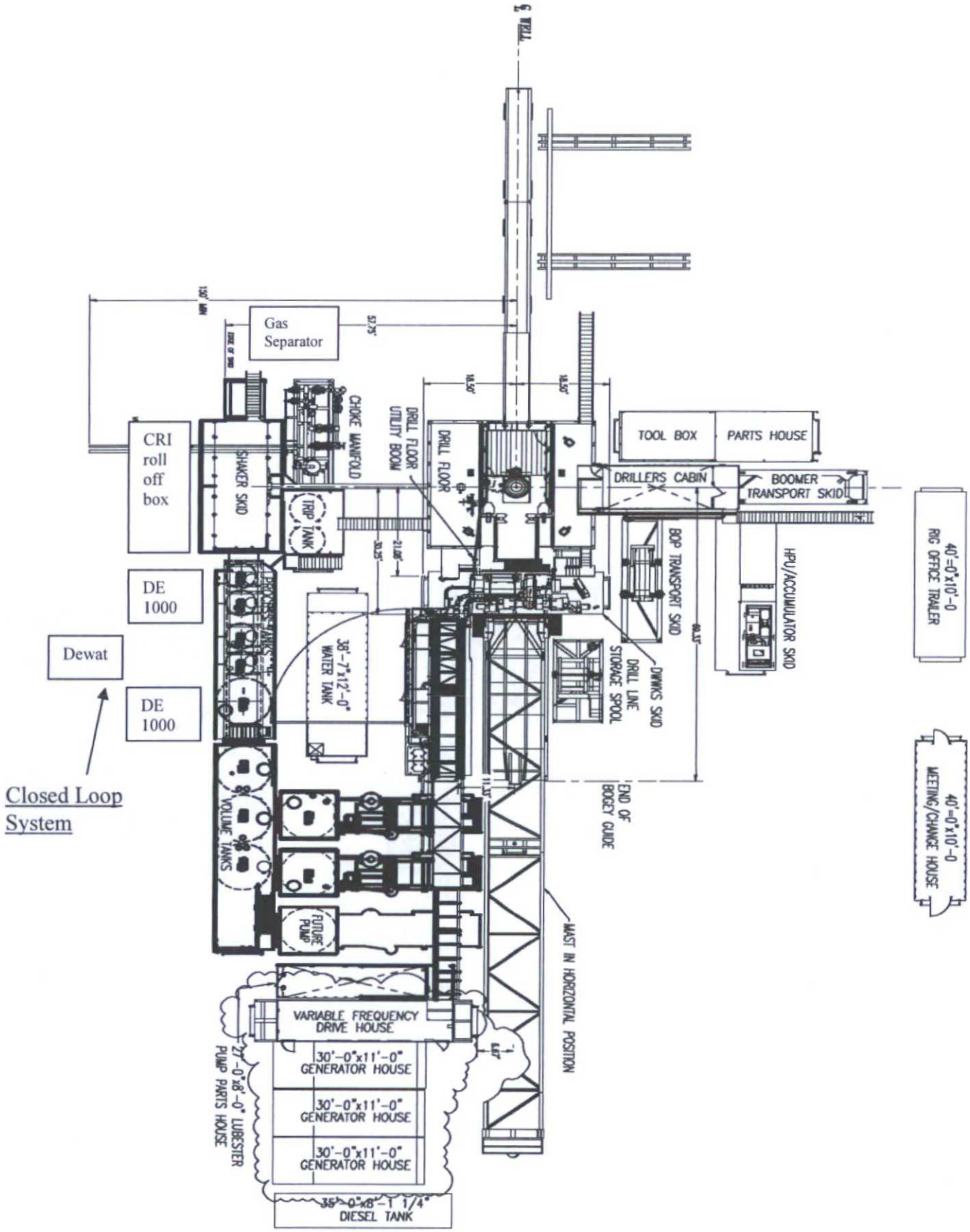


CM-4

Gas Separator Routing
Flex III Rigs



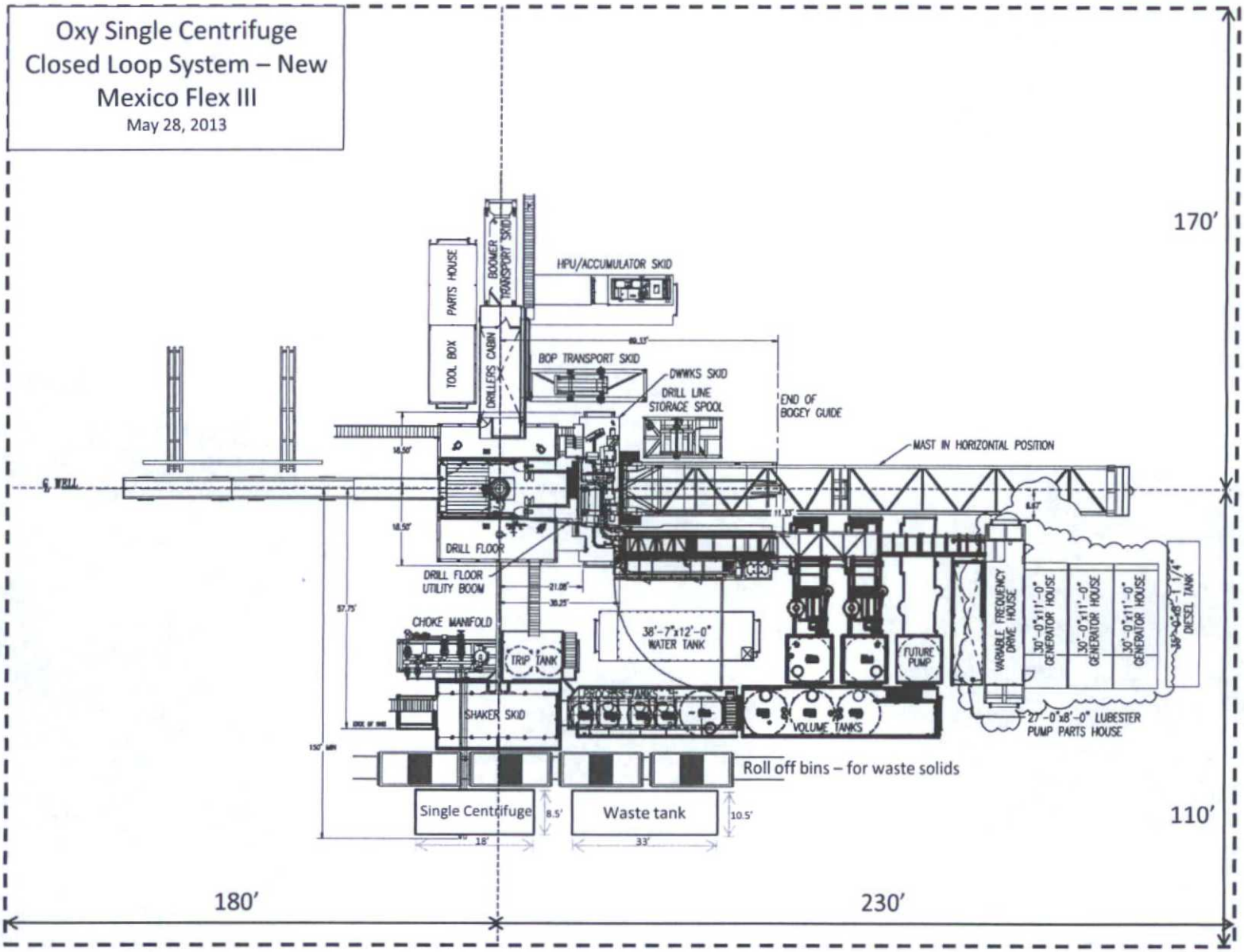
CL-1


Gas Separator
CRI roll off box
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
DWKS SKID
40'-0"x10'-0 RIG OFFICE TRAILER
40'-0"x10'-0 MEETING/CHANGE HOUSE
DE 1000
Dewat
DE 1000
Closed Loop System
38'-7"x12'-0" WATER TANK
VOLUME TANKS
FUTURE PUMP
END OF BOGEY 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

CL-2

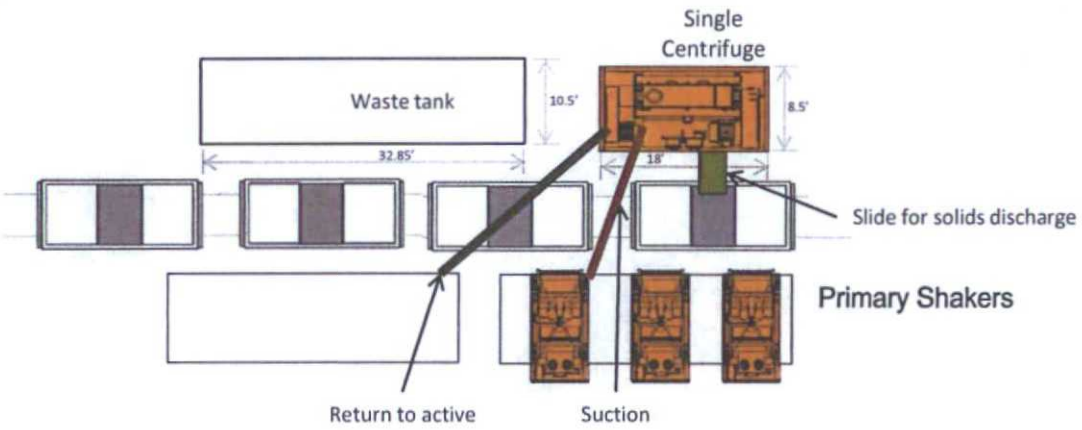
Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

May 28, 2013



CL-3

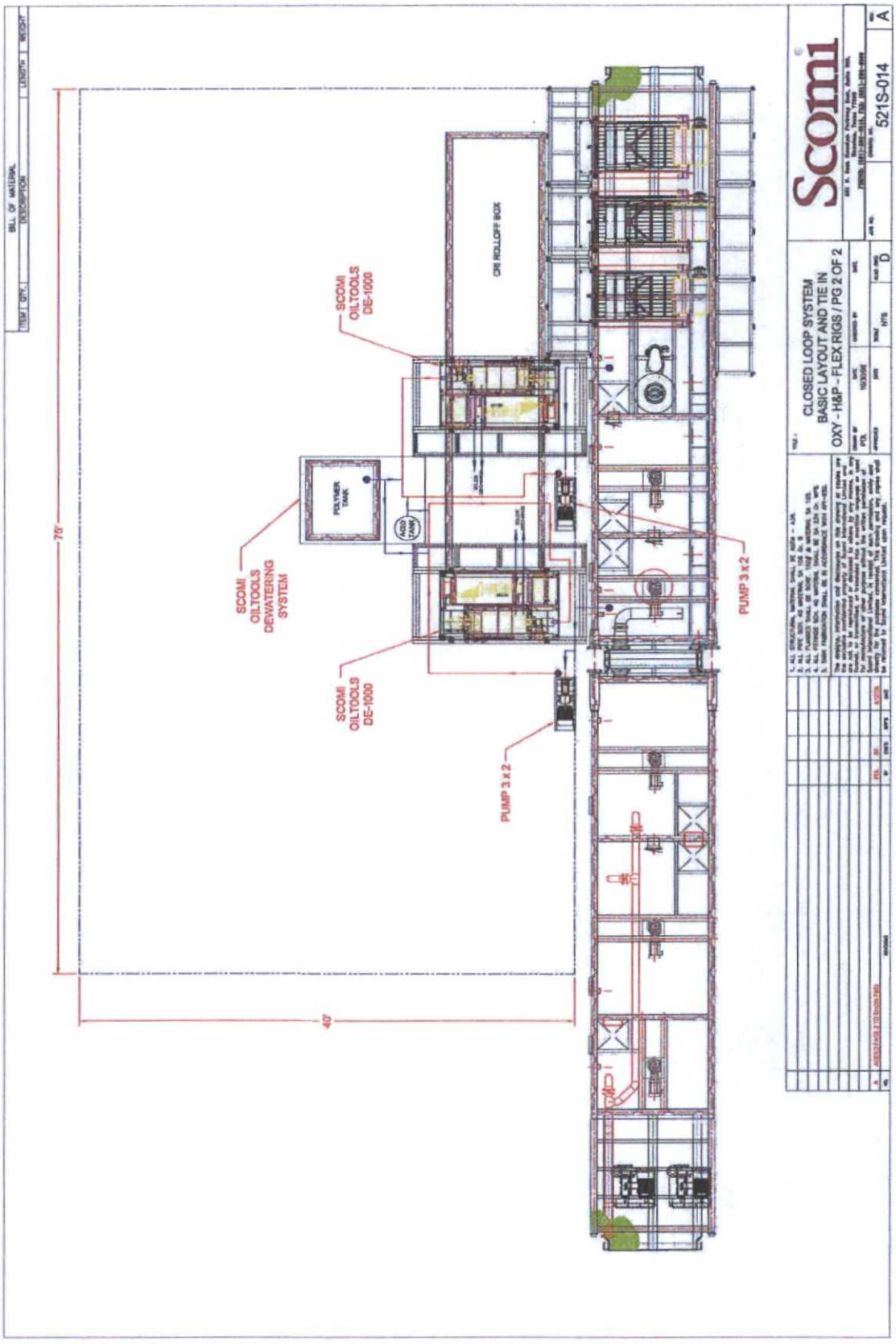
Oxy



Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

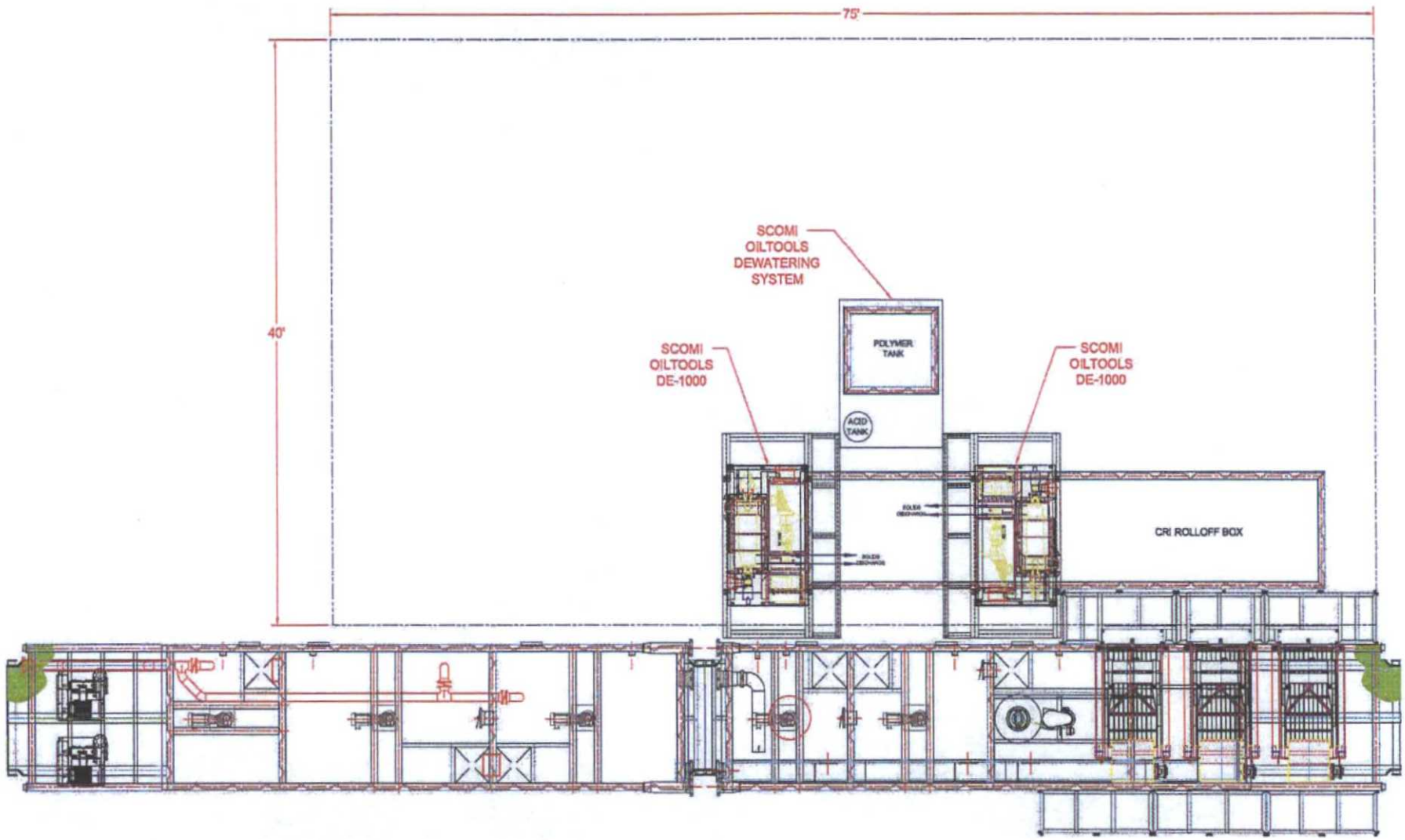
May 28, 2013

CL-4


BILL OF MATERIAL
ITEM QTY. DESCRIPTION LENGTH WEIGHT
SCOMI OILTOOLS DE-1000
CRI ROLLOFF BOX
POLYMER TANK
ACID TANK
SCOMI OILTOOLS DEWATERING SYSTEM
SCOMI OILTOOLS DE-1000
PUMP 3 x 2
PUMP 3 x 2
75'
40'
Scomi
CLOSED LOOP SYSTEM
BASIC LAYOUT AND TIE IN
OXY - H&P - FLEX RIGS / PG 2 OF 2
521S-014
A

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT



NO.	REVISION	BY	CHK'D	APP'D	DATE
A	ADDED PAGE 2 TO SHOW P&ID	PDL	BF		3/17/03

1. ALL STRUCTURAL MATERIAL SHALL BE ASTM – A36.
2. ALL PIPE SCH. 40 MATERIAL SA 106 Gr. B
3. ALL FLANGES SHALL BE 300#, 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.

TITLE:

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

DRAWN BY	DATE	CHECKED BY	DATE
PDL	10/30/00		
APPROVED	DATE	SCALE	ADD. DWG.
		NTS	D

Scomi
601 N. Sam Houston Parkway East, Suite 800,
Houston, Texas 77060
PHONE: (281)-260-0016, FAX: (281)-260-0040

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

CL-5

FH-4

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...

FH-5

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)

FH-6

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 _____

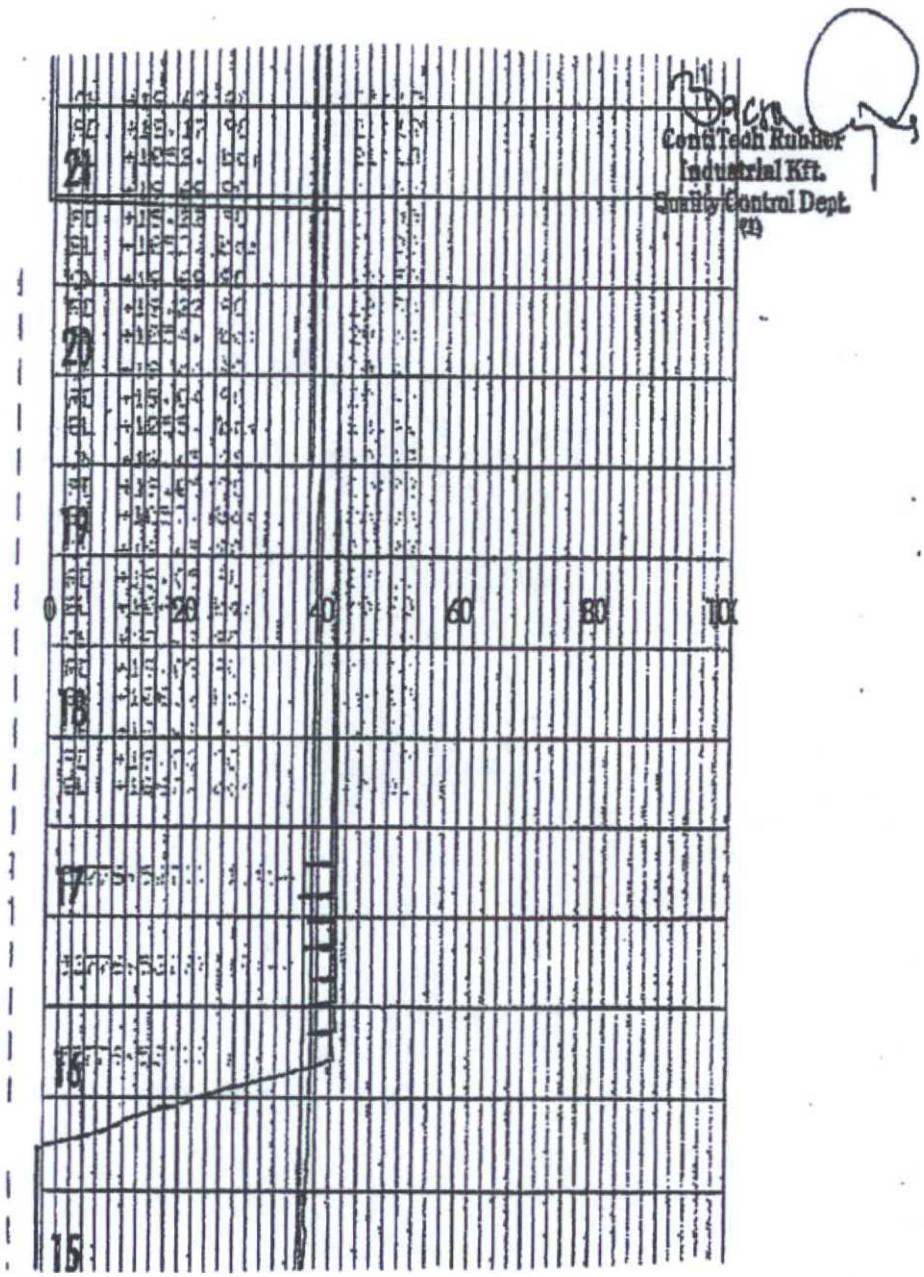
Print Name _____

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.

FH-2

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		
SECK3-HPF3	LIFTING & SAFETY EQUIPMENT TO			1	2440	002440		N/STK		
SC725-200CS	SAFETY CLAMP 200MM 7.25T	CARBON STEEL		1	2519	H665		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

FH-3

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.

Date: 04. April. 2008

Position: Q.C. Manager

H2S-2

▲ H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

● Briefing Areas. At least two briefing areas will be placed, 90 deg off.

■ Wind direction indicators. Visible from rig floor and from the mud pits area.

A gas buster is connected to both the choke manifold and flowline outlets.

Rig Layout