

HOBBS OCD

NOV 10 2014

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SECRETARY'S POTASH

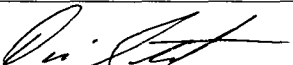
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. S-NMNM109758 BH-NMNM106696
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA Inc.		7. If Unit or CA Agreement, Name and No. Speak Easy Federal Unit #5H
3a. Address P.O. Box 50250 Midland, TX 79710		8. Lease Name and Well No.
3b. Phone No. (include area code) 432-685-5717		9. API Well No. 30-025- 42267
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 660 FNL 330 FWL NWNW(4) Sec 1 At proposed prod. zone 660 FNL 330 FWL NWNW(4) Sec 2		10. Field and Pool, or Exploratory Bootleg Ridge Delaware, NW
14. Distance in miles and direction from nearest town or post office* 28 miles east from Eunice, NM		11. Sec., T. R. M. or Blk. and Survey or Area Surf - Sec 1 T22S R32E BH - Sec 2 T22S R32E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330' - NMNM109758 330' - NMNM106696	16. No. of acres in lease 839.52ac	17. Spacing Unit dedicated to this well 160ac
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1320'	19. Proposed Depth 8556'V 13527'M	20. BLM/BIA Bond No. on file NMB000862 ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3661.8' GR	22. Approximate date work will start* 09/01/2014	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:

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

25. Signature 	Name (Printed/Typed) David Stewart	Date 2/20/14
Title Sr. Regulatory Advisor david_stewart@oxy.com		
Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date NOV - 6 2014
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)

OCD CONDITION OF APPROVAL;

Operator must be in compliance with NMOCD Rule 5.9 prior to transporting or selling product.

*(Instructions on page 2)

Carlsbad Controlled Water Basin

This well was originally permitted 5/21/13. Per BLM request the surface location was moved to extend lateral.

Original Surface Location - 660 FNL 330 FWL NWNW(4) Sec 2 T22S R32E
New Surface Location - 660 FNL 330 FWL NWNW(4) Sec 1 T22S R32E
SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APD Fee Paid 5/29/13 - Receipt No. 2802372 - MOA Fee Paid 5/29/13 Receipt No. 2802419

Approval Subject to General Requirements
& Special Stipulations Attached

NOV 14 2014

OXY USA Inc
SPEAK EASY FEDERAL UNIT #5H
APD DRILLING DATA

OPERATOR NAME / NUMBER: OXY USA Inc

LEASE NAME / NUMBER: Speak Easy Federal Unit #5H – Federal Unit No. NMNM12140X

STATE: NM COUNTY: Lea

POOL NAME/NUMBER: Bootleg Ridge Delaware, NW 6925

SURFACE LOCATION: 660 FNL 330 FWL NWNW(4) Sec 1 T22S R32E – NMNM109758
 SL: LAT: 32.4261510N LONG:103.6353899W X:715354.4 Y:519451.1 NAD: 27

PENETRATION POINT: 660 FNL 330 FEL NENE(1) Sec 2 T22S R32E – NMNM106696
 SL: LAT: 32.4261430N LONG:103.6375288W X:714694.4 Y:519443.9 NAD: 27

BOTTOM HOLE LOCATION: 660 FNL 330 FWL NWNW(4) Sec 2 T22S R32E – NMNM106696
 BH: LAT: 32.4260856N LONG:103.6524981W X:710075.6 Y:519393.2 NAD: 27

APPROX GR ELEV: 3661.8' EST KB ELEV: 3685.8' (24' 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	904	--
T. Salt	2004	--
B. Salt	4664	--
T. Lamar / B. Anhydrite	4714	--
T. Bell Canyon	4864	Form Water
T. Cherry Canyon	5729	Oil/Gas
T. Brushy Canyon	6989	Oil/Gas
Target Brushy Canyon Sand	8556	Oil/Gas
T. BSPG	8734	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.

GREATEST PROJECTED TD "LATERAL": 13527' MD / 8556' TVD OBJECTIVE: Brushy Canyon

3. CASING PROGRAM

New Surface Casing ran in a 14.75" hole filled with 8.50 ppg mud

See COA

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	0- 950 ¹⁰²⁵	11.75	47	J55	BTC	11.000	New	3072	1514	1.42	4.01	5.34

New Intermediate Casing ran in a 10.625" 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	0-4750	8.625	32	J55	LTC	7.921*	New	3928	2533	1.24	1.60	1.83

New Production Casing ran in a 7.875" hole filled with 9.1 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	0-13527	5.500	17	L80	BTC	4.892	New	7740	6285	1.20	1.54	1.76

*SPECIAL DRIFT TO 7.875"

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' – 650' (125% Excess)	350	650	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 4% Bentonite (Light Weight Additive), 1% Calcium Chloride – Flake (Accelerator), .125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	9.14	13.5	1.73	1006 psi
Tail: 950' – 650' (125% Excess)	220	300	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement) 2% Calcium Chloride – Flake (Accelerator)	6.39	14.8	1.35	1346 psi

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' – 4150' (105% Excess)	900	4150	Light Premium Plus Cement: 5% Salt (Accelerator), 0.35% HR-800 (Retarder)	9.84	12.9	1.85	734 psi
Tail: 4150' – 4750' (105 % Excess)	200	600	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement)	6.34	14.8	1.33	1849 psi

Production Casing

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' – 8000' (100% Excess)	700	8000	TUNED LIGHT (TM) SYSTEM 3 lbm/sk Kol-Seal (Lost Circulation Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive), 0.25 lbm/sk HR-800 (Retarder)	14.05	10.2	2.95	940
Tail: 8000' – 13527' (40% Excess)	820	5527	Super H Cement, 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.4 % CFR-3 (Dispersant), 3 lbm/sk Salt (Accelerator), 0.3 % HR-800 (Retarder), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	8.42	13.2	1.65	1275
DV TOOL SET AT 4850' for contingency. If returns are not lost during primary cementing operation, DV cancellation plug will be run and 2nd stage cancelled. Contingency recipe for 2nd stage as follows:							
Lead: 0' – 4350' (10% Excess)	420	4350	Light Premium Plus: 3 lbm/sk Salt (Accelerator)	11.39	12.4	2.05	450 psi
Tail: 4350' – 4850' (100% Excess)	100	500	Premium Cement: 94 lbm/sk Premium Cement (Cement)	6.34	14.8	1.33	1849 psi

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

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: ^{1025'}0' - ~~950'~~ None.

Intermediate and Production: 950' MD/TVD - 13527' MD / 8556' 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.

- See COA*
- 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - See COA* 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).
 - BOP & Choke manifold diagrams attached.

7. MUD PROGRAM:

See COA

^{1025'} Depth (MD)	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0' - 950'	8.5	28 - 38	NC	Fresh Water / Spud Mud
950' - 4750'	10.2	28 - 32	NC	Fresh Water / NaCl Brine
4750' - 13527'	9.1	28 - 34	NC	Cut Brine / Sweeps

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 full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- See COA* 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. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.442 psi/ft**. Maximum anticipated bottom hole pressure is **3782 psi**.
- b. 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.

See
COA

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location construction will begin after the APD approval. Move in operations and drilling is expected to take 30 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: Triple Combo (GR/Resistivity/Neutron-Density) from Int Casing Shoe to KOP.
- b. Mud loggers to be rigged up from conductor shoe to TD.
- c. Acquire GR while drilling, from Int casing shoe to TD.

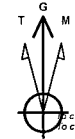
COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Anar Khalilov	Drilling Engineer	(713)985-6959	(832) 205-6365
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

DP-1



SFU-5H
Lea County, New Mexico
Northing: 519451.00
Easting: 715354.00
Design #2



Azimuths to Grid No:
True North: -0.3
Magnetic North: 6.5
Magnetic Fir
Strength: 48466.4s
Dip Angle: 50.3
Date: 1/30/20
Model: IGRF20



KB @ 3685.80usft
Gr@ 3661.80

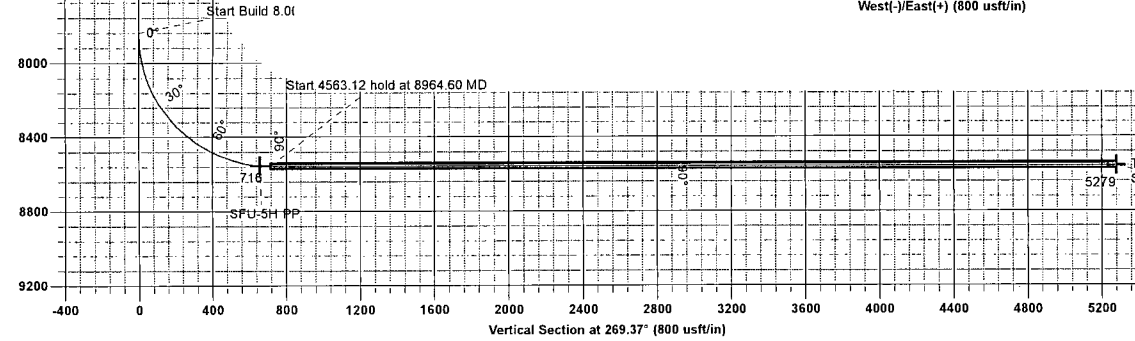
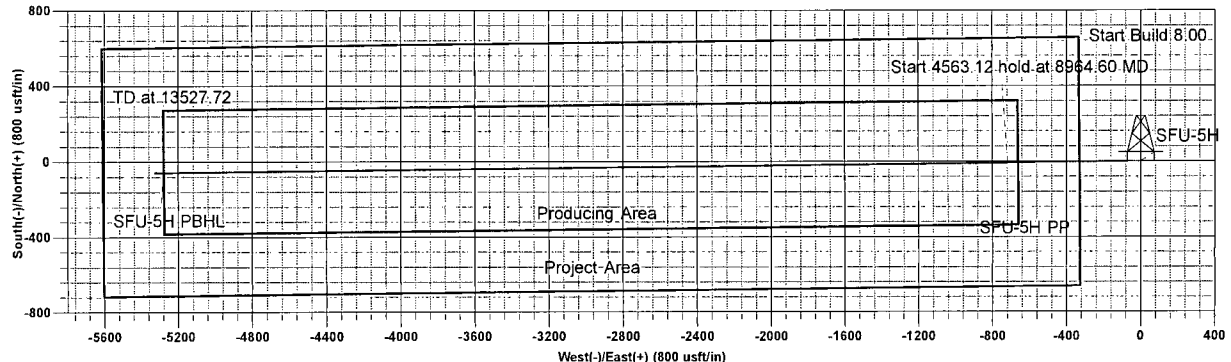
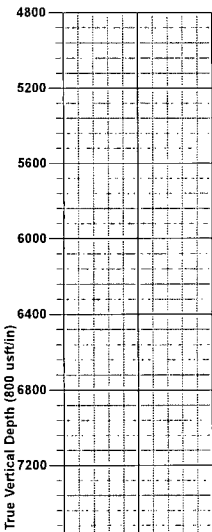
WELL DETAILS						SFU-5H	
+N/-S	+E/-W	Northing	Ground Level	Easting		Latitude	Longitude
0.00	0.00	519451.00	3661.80	715354.00		32.426	-103.635

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting		
SFU-5H PP	8553.60	-6.80	-658.82	519444.20	714895.18		
SFU-5H PBHL	8555.80	-58.00	-5279.00	519393.00	710075.00		

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7839.60	0.00	0.00	7839.60	0.00	0.00	0.00	0.00	0.00	
8964.60	90.00	269.37	8555.80	-7.87	-716.15	8.00	269.37	716.20	
13527.72	90.00	269.37	8555.80	-58.00	-5279.00	0.00	0.00	5279.32	SFU-5H PBHL

SITE DETAILS:
Speakeasy Federal Unit 5H
Site Centre Northing: 519451.00
Easting: 715354.00
Positional Uncertainty: 0.00
Convergence: 0.37
Local North: Grid

PROJECT DETAILS:
Lea County, New Mexico
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Jody Barclay
16:46, January 30 2014
Scientific Drilling
2740 N. Highway 287
Decatur, TX 76234

Database:	CompassC	Local Co-ordinate Reference:	Well SFU-5H
Company:	OXY	TVD Reference:	KB @ 3685.80usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3685.80usft
Site:	Speakeasy Federal Unit 5H	North Reference:	Grid
Well:	SFU-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Project:	Lea County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Speakeasy Federal Unit 5H		
Site Position:		Northing:	519,451.00 usft
From:	Map	Easting:	715,354.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.426
		Longitude:	-103.635
		Grid Convergence:	0.37 °

Well	SFU-5H					
Well Position	+N/-S	0.00 usft	Northing:	519,451.00 usft	Latitude:	32.426
	+E/-W	0.00 usft	Easting:	715,354.00 usft	Longitude:	-103.635
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,661.80 usft

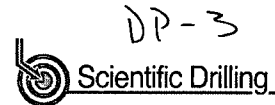
Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/3/2013	7.41	60.32	48,549

Design	Design #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.37

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,839.60	0.00	0.00	7,839.60	0.00	0.00	0.00	0.00	0.00	0.00	
8,964.60	90.00	269.37	8,555.80	-7.87	-716.15	8.00	8.00	0.00	269.37	
13,527.72	90.00	269.37	8,555.80	-58.00	-5,279.00	0.00	0.00	0.00	0.00	SFU-5H PBHL



Scientific Drilling
Planning Report

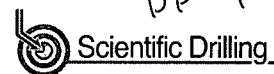


Database:	CompassC	Local Co-ordinate Reference:	Well SFU-5H
Company:	OXY	TVD Reference:	KB @ 3685.80usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3685.80usft
Site:	Speakeasy Federal Unit 5H	North Reference:	Grid
Well:	SFU-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Scientific Drilling
Planning Report

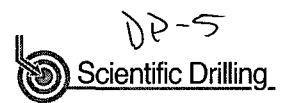


Database:	CompassC	Local Co-ordinate Reference:	Well SFU-5H
Company:	OXY	TVD Reference:	KB @ 3685.80usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3685.80usft
Site:	Speakeasy Federal Unit 5H	North Reference:	Grid
Well:	SFU-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,839.60	0.00	0.00	7,839.60	0.00	0.00	0.00	0.00	0.00	0.00
7,850.00	0.83	269.37	7,850.00	0.00	-0.08	0.08	8.00	8.00	0.00
7,900.00	4.83	269.37	7,899.93	-0.03	-2.55	2.55	8.00	8.00	0.00
7,950.00	8.83	269.37	7,949.56	-0.09	-8.49	8.49	8.00	8.00	0.00
8,000.00	12.83	269.37	7,998.66	-0.20	-17.89	17.89	8.00	8.00	0.00
8,050.00	16.83	269.37	8,046.99	-0.34	-30.68	30.68	8.00	8.00	0.00
8,100.00	20.83	269.37	8,094.30	-0.51	-46.82	46.82	8.00	8.00	0.00
8,150.00	24.83	269.37	8,140.37	-0.73	-66.21	66.22	8.00	8.00	0.00
8,200.00	28.83	269.37	8,184.98	-0.98	-88.77	88.78	8.00	8.00	0.00
8,250.00	32.83	269.37	8,227.91	-1.26	-114.39	114.40	8.00	8.00	0.00
8,300.00	36.83	269.37	8,268.94	-1.57	-142.95	142.95	8.00	8.00	0.00
8,350.00	40.83	269.37	8,307.88	-1.91	-174.29	174.30	8.00	8.00	0.00
8,400.00	44.83	269.37	8,344.54	-2.29	-208.27	208.28	8.00	8.00	0.00
8,450.00	48.83	269.37	8,378.74	-2.69	-244.73	244.74	8.00	8.00	0.00
8,500.00	52.83	269.37	8,410.32	-3.11	-283.48	283.50	8.00	8.00	0.00
8,550.00	56.83	269.37	8,439.11	-3.56	-324.35	324.37	8.00	8.00	0.00
8,600.00	60.83	269.37	8,464.98	-4.03	-367.12	367.14	8.00	8.00	0.00
8,650.00	64.83	269.37	8,487.81	-4.52	-411.59	411.61	8.00	8.00	0.00
8,700.00	68.83	269.37	8,507.47	-5.03	-457.55	457.57	8.00	8.00	0.00
8,750.00	72.83	269.37	8,523.89	-5.55	-504.76	504.79	8.00	8.00	0.00
8,800.00	76.83	269.37	8,536.97	-6.08	-553.01	553.04	8.00	8.00	0.00
8,850.00	80.83	269.37	8,546.65	-6.61	-602.05	602.08	8.00	8.00	0.00
8,900.00	84.83	269.37	8,552.89	-7.16	-651.64	651.68	8.00	8.00	0.00
8,950.00	88.83	269.37	8,555.65	-7.71	-701.55	701.60	8.00	8.00	0.00
8,964.60	90.00	269.37	8,555.80	-7.87	-716.15	716.20	8.00	8.00	0.00
9,000.00	90.00	269.37	8,555.80	-8.26	-751.55	751.59	0.00	0.00	0.00
9,100.00	90.00	269.37	8,555.80	-9.36	-851.54	851.59	0.00	0.00	0.00
9,200.00	90.00	269.37	8,555.80	-10.45	-951.54	951.59	0.00	0.00	0.00
9,300.00	90.00	269.37	8,555.80	-11.55	-1,051.53	1,051.59	0.00	0.00	0.00



Scientific Drilling Planning Report

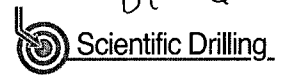


Database:	CompassC	Local Co-ordinate Reference:	Well SFU-5H
Company:	OXY	TVD Reference:	KB @ 3685.80usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3685.80usft
Site:	Speakeasy Federal Unit 5H	North Reference:	Grid
Well:	SFU-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,400.00	90.00	269.37	8,555.80	-12.65	-1,151.53	1,151.59	0.00	0.00	0.00	
9,500.00	90.00	269.37	8,555.80	-13.75	-1,251.52	1,251.59	0.00	0.00	0.00	
9,600.00	90.00	269.37	8,555.80	-14.85	-1,351.51	1,351.59	0.00	0.00	0.00	
9,700.00	90.00	269.37	8,555.80	-15.95	-1,451.51	1,451.59	0.00	0.00	0.00	
9,800.00	90.00	269.37	8,555.80	-17.05	-1,551.50	1,551.59	0.00	0.00	0.00	
9,900.00	90.00	269.37	8,555.80	-18.14	-1,651.49	1,651.59	0.00	0.00	0.00	
10,000.00	90.00	269.37	8,555.80	-19.24	-1,751.49	1,751.59	0.00	0.00	0.00	
10,100.00	90.00	269.37	8,555.80	-20.34	-1,851.48	1,851.59	0.00	0.00	0.00	
10,200.00	90.00	269.37	8,555.80	-21.44	-1,951.48	1,951.59	0.00	0.00	0.00	
10,300.00	90.00	269.37	8,555.80	-22.54	-2,051.47	2,051.59	0.00	0.00	0.00	
10,400.00	90.00	269.37	8,555.80	-23.64	-2,151.46	2,151.59	0.00	0.00	0.00	
10,500.00	90.00	269.37	8,555.80	-24.74	-2,251.46	2,251.59	0.00	0.00	0.00	
10,600.00	90.00	269.37	8,555.80	-25.84	-2,351.45	2,351.59	0.00	0.00	0.00	
10,700.00	90.00	269.37	8,555.80	-26.93	-2,451.45	2,451.59	0.00	0.00	0.00	
10,800.00	90.00	269.37	8,555.80	-28.03	-2,551.44	2,551.59	0.00	0.00	0.00	
10,900.00	90.00	269.37	8,555.80	-29.13	-2,651.43	2,651.59	0.00	0.00	0.00	
11,000.00	90.00	269.37	8,555.80	-30.23	-2,751.43	2,751.59	0.00	0.00	0.00	
11,100.00	90.00	269.37	8,555.80	-31.33	-2,851.42	2,851.59	0.00	0.00	0.00	
11,200.00	90.00	269.37	8,555.80	-32.43	-2,951.42	2,951.59	0.00	0.00	0.00	
11,300.00	90.00	269.37	8,555.80	-33.53	-3,051.41	3,051.59	0.00	0.00	0.00	
11,400.00	90.00	269.37	8,555.80	-34.62	-3,151.40	3,151.59	0.00	0.00	0.00	
11,500.00	90.00	269.37	8,555.80	-35.72	-3,251.40	3,251.59	0.00	0.00	0.00	
11,600.00	90.00	269.37	8,555.80	-36.82	-3,351.39	3,351.59	0.00	0.00	0.00	
11,700.00	90.00	269.37	8,555.80	-37.92	-3,451.39	3,451.59	0.00	0.00	0.00	
11,800.00	90.00	269.37	8,555.80	-39.02	-3,551.38	3,551.59	0.00	0.00	0.00	
11,900.00	90.00	269.37	8,555.80	-40.12	-3,651.37	3,651.59	0.00	0.00	0.00	
12,000.00	90.00	269.37	8,555.80	-41.22	-3,751.37	3,751.59	0.00	0.00	0.00	
12,100.00	90.00	269.37	8,555.80	-42.31	-3,851.36	3,851.59	0.00	0.00	0.00	
12,200.00	90.00	269.37	8,555.80	-43.41	-3,951.36	3,951.59	0.00	0.00	0.00	
12,300.00	90.00	269.37	8,555.80	-44.51	-4,051.35	4,051.59	0.00	0.00	0.00	
12,400.00	90.00	269.37	8,555.80	-45.61	-4,151.34	4,151.59	0.00	0.00	0.00	
12,500.00	90.00	269.37	8,555.80	-46.71	-4,251.34	4,251.59	0.00	0.00	0.00	
12,600.00	90.00	269.37	8,555.80	-47.81	-4,351.33	4,351.59	0.00	0.00	0.00	
12,700.00	90.00	269.37	8,555.80	-48.91	-4,451.33	4,451.59	0.00	0.00	0.00	
12,800.00	90.00	269.37	8,555.80	-50.01	-4,551.32	4,551.59	0.00	0.00	0.00	
12,900.00	90.00	269.37	8,555.80	-51.10	-4,651.31	4,651.59	0.00	0.00	0.00	
13,000.00	90.00	269.37	8,555.80	-52.20	-4,751.31	4,751.59	0.00	0.00	0.00	
13,100.00	90.00	269.37	8,555.80	-53.30	-4,851.30	4,851.59	0.00	0.00	0.00	
13,200.00	90.00	269.37	8,555.80	-54.40	-4,951.30	4,951.59	0.00	0.00	0.00	
13,300.00	90.00	269.37	8,555.80	-55.50	-5,051.29	5,051.59	0.00	0.00	0.00	
13,400.00	90.00	269.37	8,555.80	-56.60	-5,151.28	5,151.59	0.00	0.00	0.00	
13,500.00	90.00	269.37	8,555.80	-57.70	-5,251.28	5,251.59	0.00	0.00	0.00	
13,527.72	90.00	269.37	8,555.80	-58.00	-5,279.00	5,279.32	0.00	0.00	0.00	

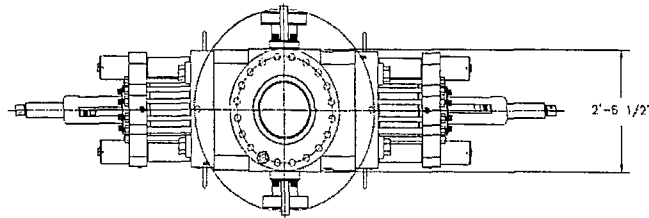


Scientific Drilling
Planning Report



Database:	CompassC	Local Co-ordinate Reference:	Well: SFU-5H
Company:	OXY	TVD Reference:	KB @ 3685.80usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3685.80usft
Site:	Speakeasy Federal Unit 5H	North Reference:	Grid
Well:	SFU-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Design #2		

Design Targets									
Target Name	Dip/Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
SFU-5H PP	0.00	0.00	8,553.60	-6.80	-658.82	519,444.20	714,695.18	32.426	-103.638
- plan misses target center by 0.45usft at 8907.20usft MD (8553.50 TVD, -7.24 N, -658.82 E)									
- Point									
SFU-5H PBHL	0.00	0.00	8,555.80	-58.00	-5,279.00	519,393.00	710,075.00	32.426	-103.652
- plan hits target center									
- Rectangle (sides W0.00 H4,563.12 D30.00)									



LEGEND

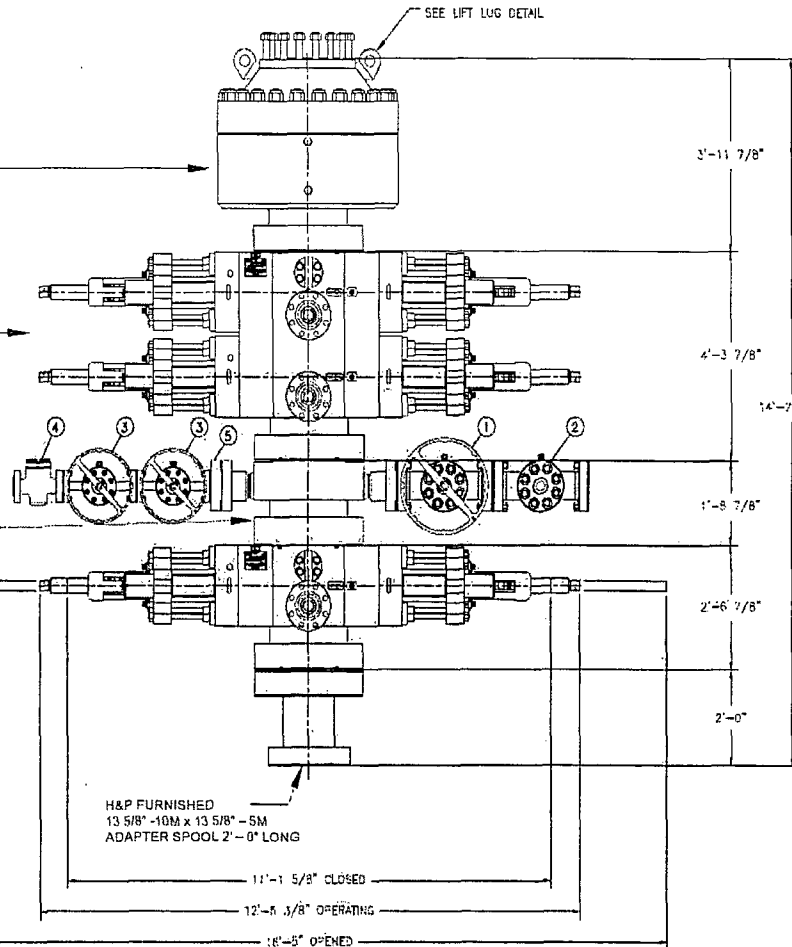
- ①- 4 1/16"-10M FLANGED END GATE VALVE
- ②- 4 1/16"-10M FLANGED END GATE VALVE WITH DOUBLE ACTING HYDRAULIC ACTUATOR
- ③- 2 1/16"-10M FLANGED END GATE VALVE
- ④- 2 1/16"-10M FLANGED END CHECK VALVE
- ⑤- DOUBLE STUDDED ADAPTER

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

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 + STUDDED TOP (WEIGHT = 21,100 LBS, WITH RAMS)

13 5/8"-10M WP CAMERON DRILLING SPOOL (API 16A MONOGRAMMED), STUDDED TOP + 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 + STUDDED TOP (WEIGHT = 10,900 LBS)

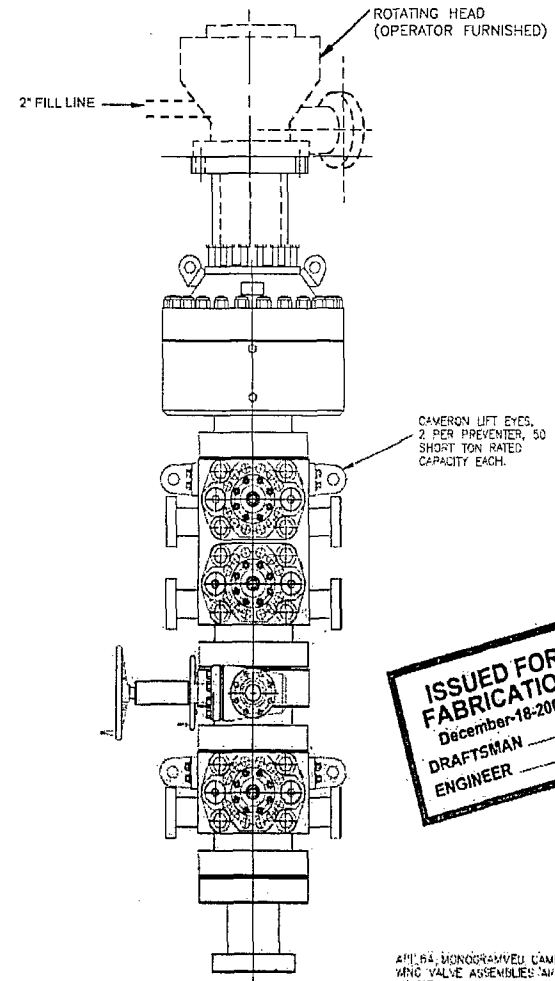


H&P FURNISHED
13 5/8\"-10M x 13 5/8\"-5M
ADAPTER SPOOL 2'-0\" LONG

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

PROPRIETARY

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, REPHRASED OR DISCLOSED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF A DULY AUTHORIZED OFFICE OF HELMERICH & PAYNE INTL DRILLING CO.



ISSUED FOR
FABRICATION
December-18-2007
DRAFTSMAN
ENGINEER

API 16A MONOGRAMMED CAMERON CHOKER AND KILL KING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY

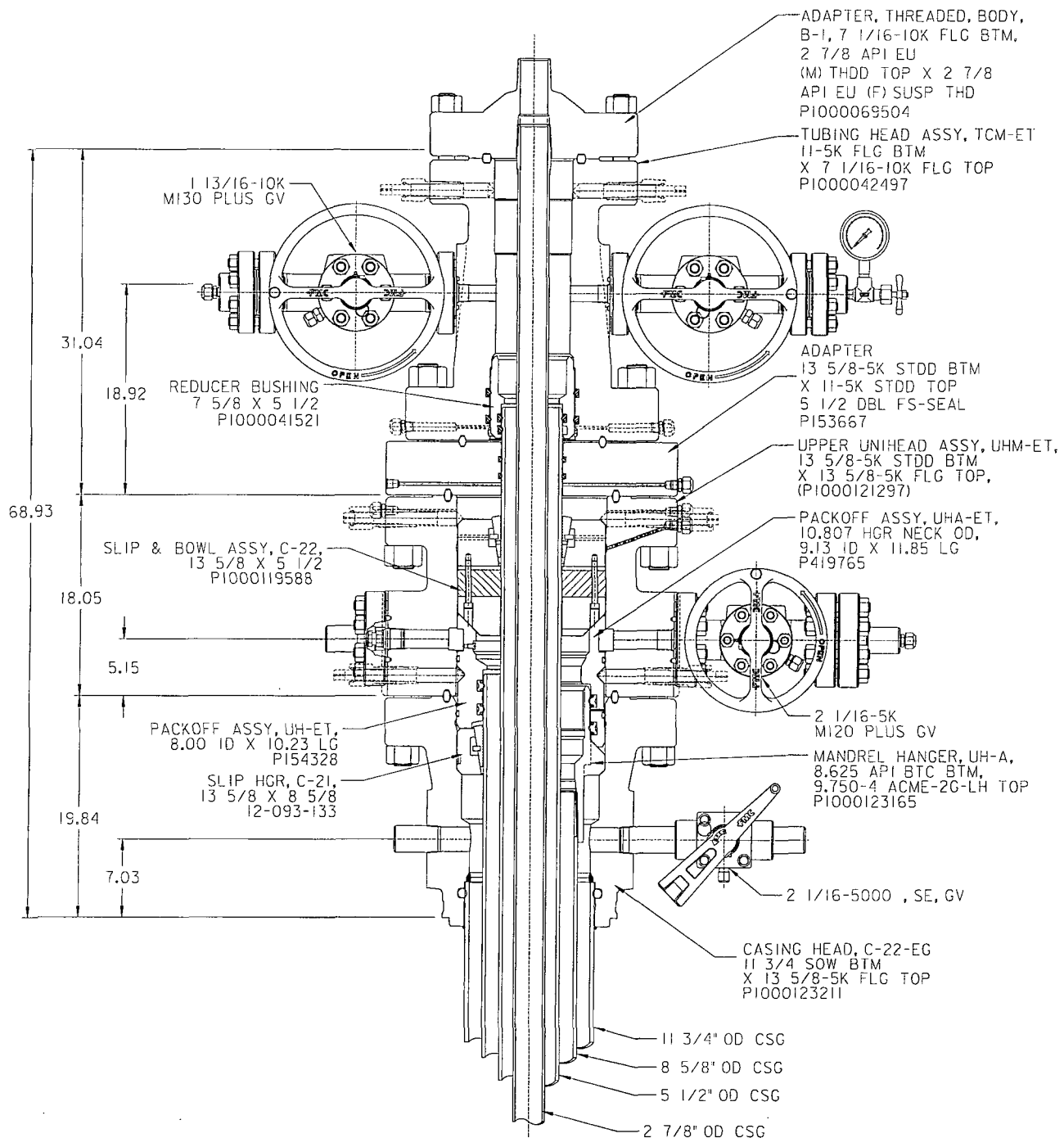
WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

ENGINEERING APPROVAL		DATE	TITLE
12/15/07	ADDED SHEET 01	12/15/07	13 5/8\"-10M BOP 3 RAM STACK
4-10-07	CAMERON'S NEW 13 5/8\"-10M SPOOL ADAPTERS (REVIS L, T, & S AND WELDED VALVE ACT)	JRG	CUSTOMER: H&P
4-04-07	ADDED TO SPOILER ADAPTER SPOOL	JRG	PROJECT: FLEXRIG3
07-07-07	ADDED ADAPTER SPOOL	VAL	DRAWN: MTS
06-13-06	CONNECTED BOP STACK	VAL	DATE: 12-5-07
REV	DATE	DESCRIPTION	SCALE: 3/4\"=1'
			210-P1-07

BOP-1

BOP-2



OCCEIDENTAL

ODESSA

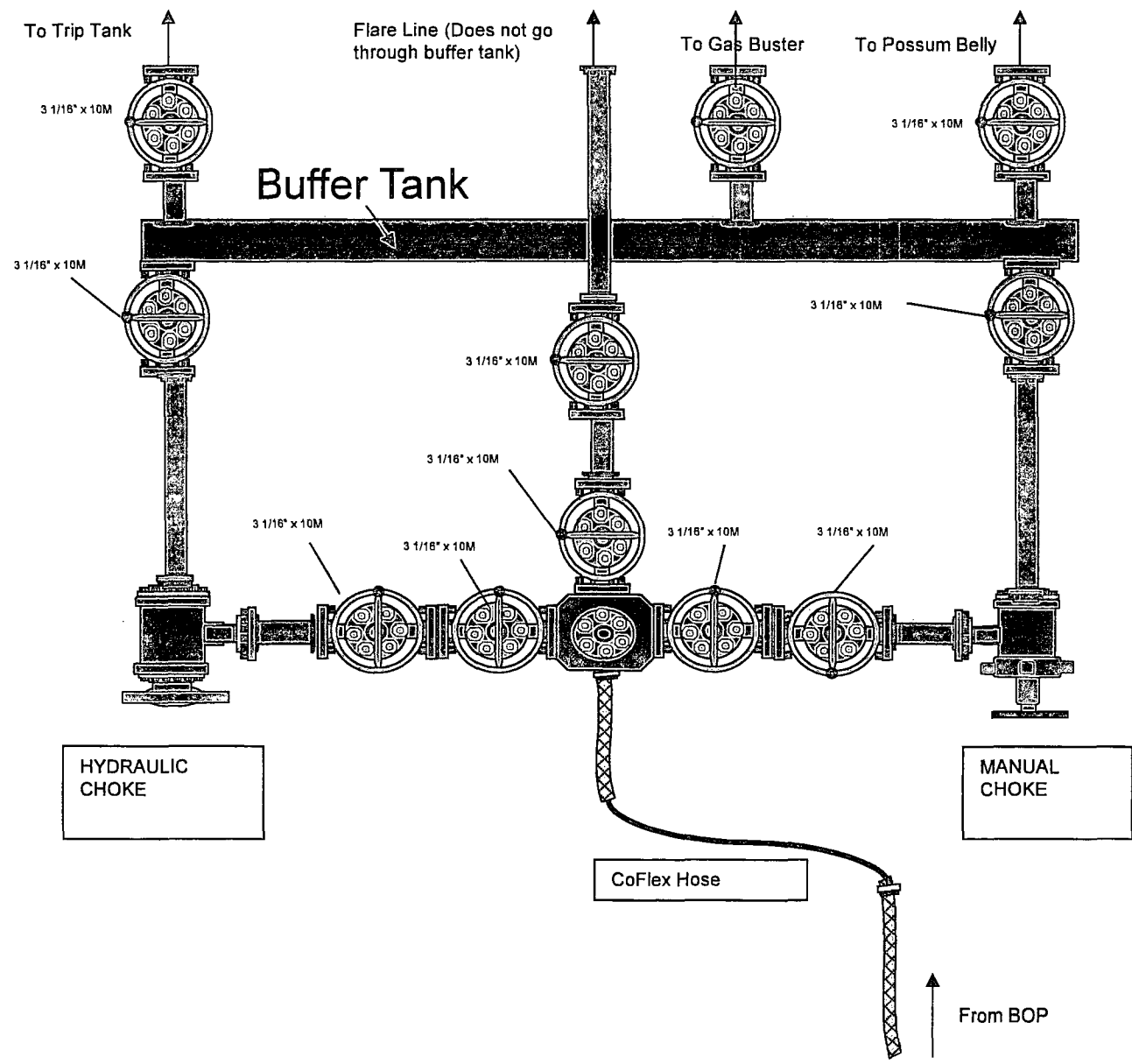
11 3/4 X 8 5/8 X 5 1/2
RIG (H&P 477)

QUOTE LAYOUT
F18692
REF: DM100161780

PRIVATE AND CONFIDENTIAL THIS DOCUMENT AND ALL THE INFORMATION CONTAINED HEREIN ARE THE CONFIDENTIAL AND EXCLUSIVE PROPERTY OF FMC TECHNOLOGIES AND MAY NOT BE REPRODUCED, USED, DISCLOSED, OR MADE PUBLIC IN ANY MANNER PRIOR TO EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES. THIS DOCUMENT IS ACCEPTED BY RECIPIENT PURSUANT TO AGREEMENT TO THE FOREGOING AND MUST BE RETURNED UPON DEMAND. MANUFACTURER AGREES THAT ARTICLES MADE IN ACCORDANCE WITH THIS DOCUMENT SHALL BE CONSIDERED FMC TECHNOLOGIES' DESIGN AND THAT IDENTICAL ARTICLES OR PARTS THEREOF SHALL NOT BE MANUFACTURED FOR THE USE OR SALE BY MANUFACTURER OR ANY OTHER PERSON WITHOUT THE PRIOR EXPRESS WRITTEN AUTHORIZATION BY FMC TECHNOLOGIES.	REVISIONS 0105-29-13	DESCRIPTION SURFACE WELLHEAD LAYOUT BASIC WELLHEAD, SOW, ODESSA, OCCEIDENTAL	DATE P. LE 05-29-13 Z. MARQUEZ 05-29-13 L. MELO 05-29-13 R. HAMILTON 05-29-13	DRAWING NUMBER DM100163272-1

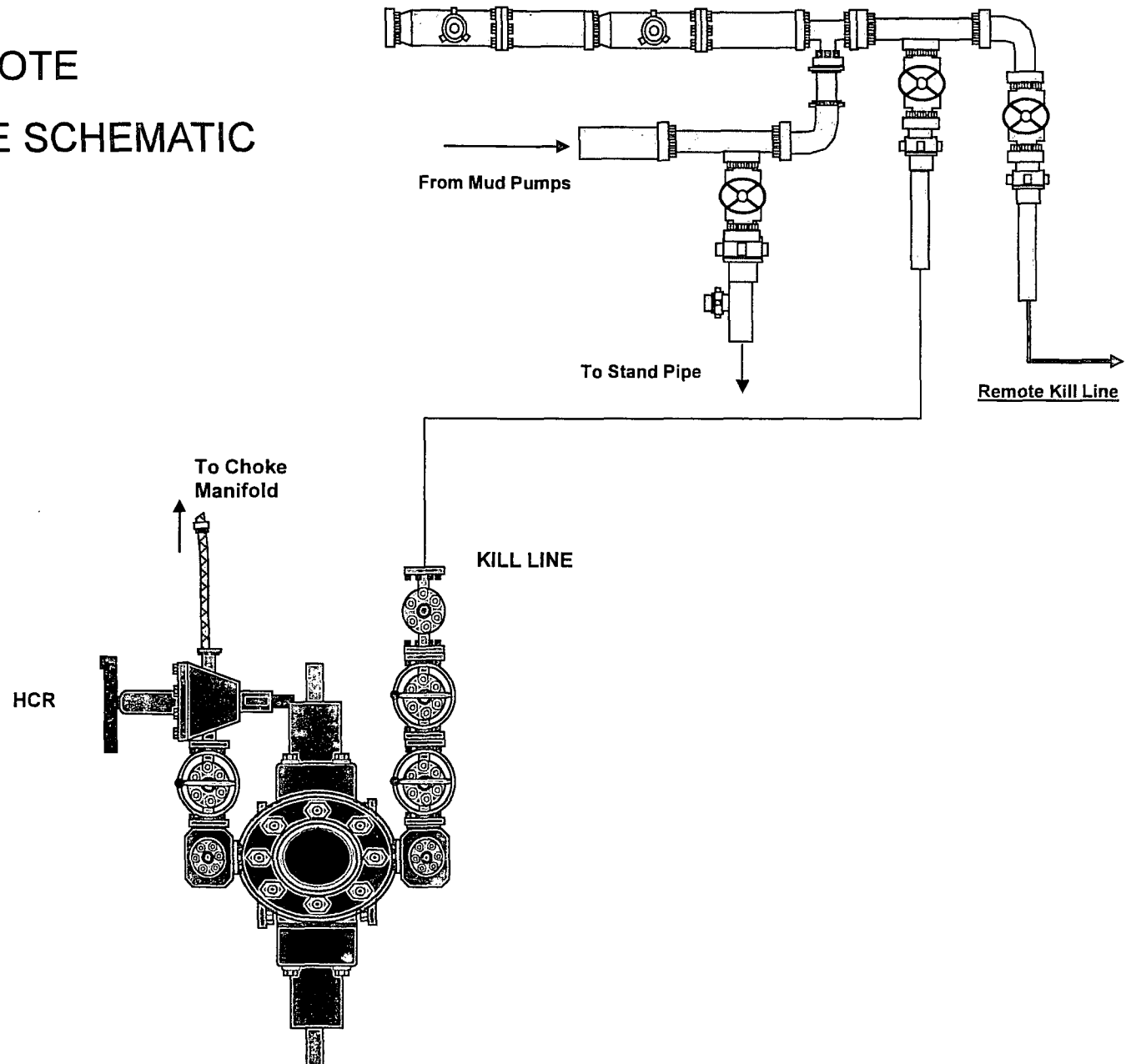
DM100163272-1

FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)

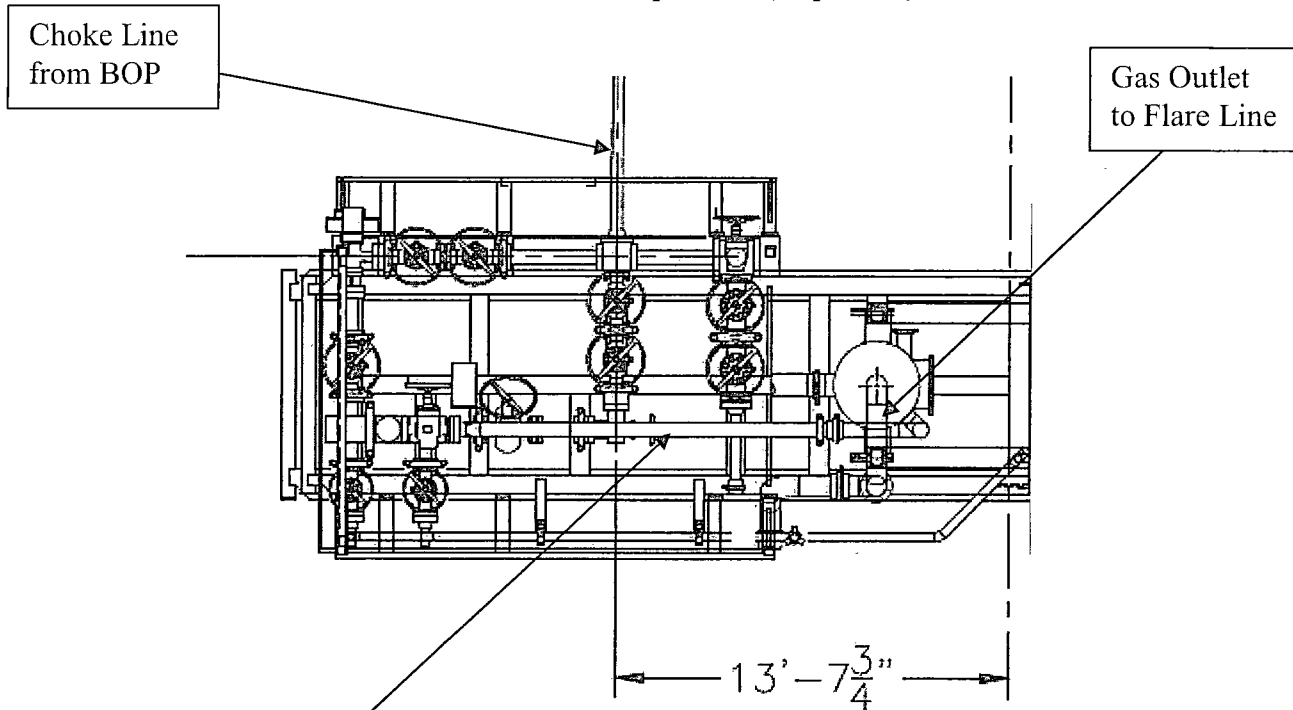


CM-1

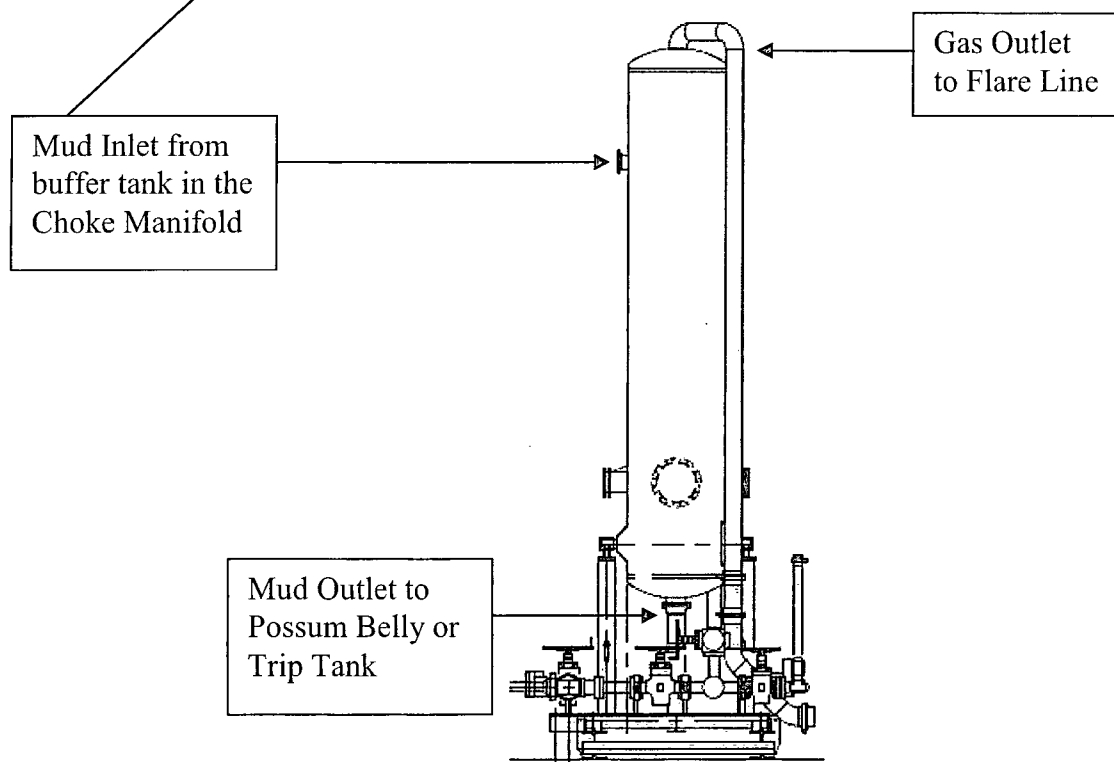
10M REMOTE KILL LINE SCHEMATIC



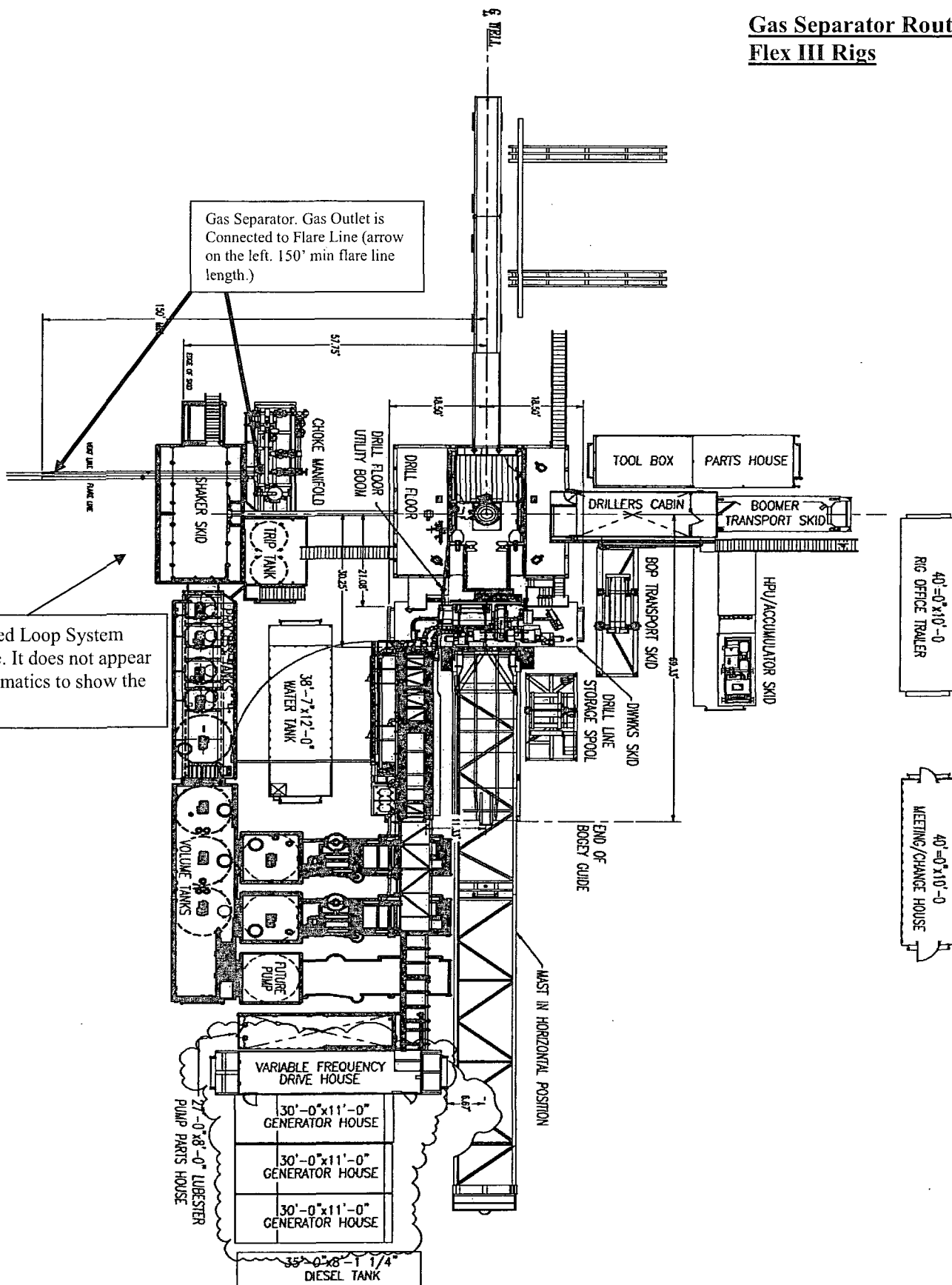
Choke Manifold – Gas Separator (Top View)



Choke Manifold – Gas Separator (Side View)



Gas Separator Routing Flex III Rigs





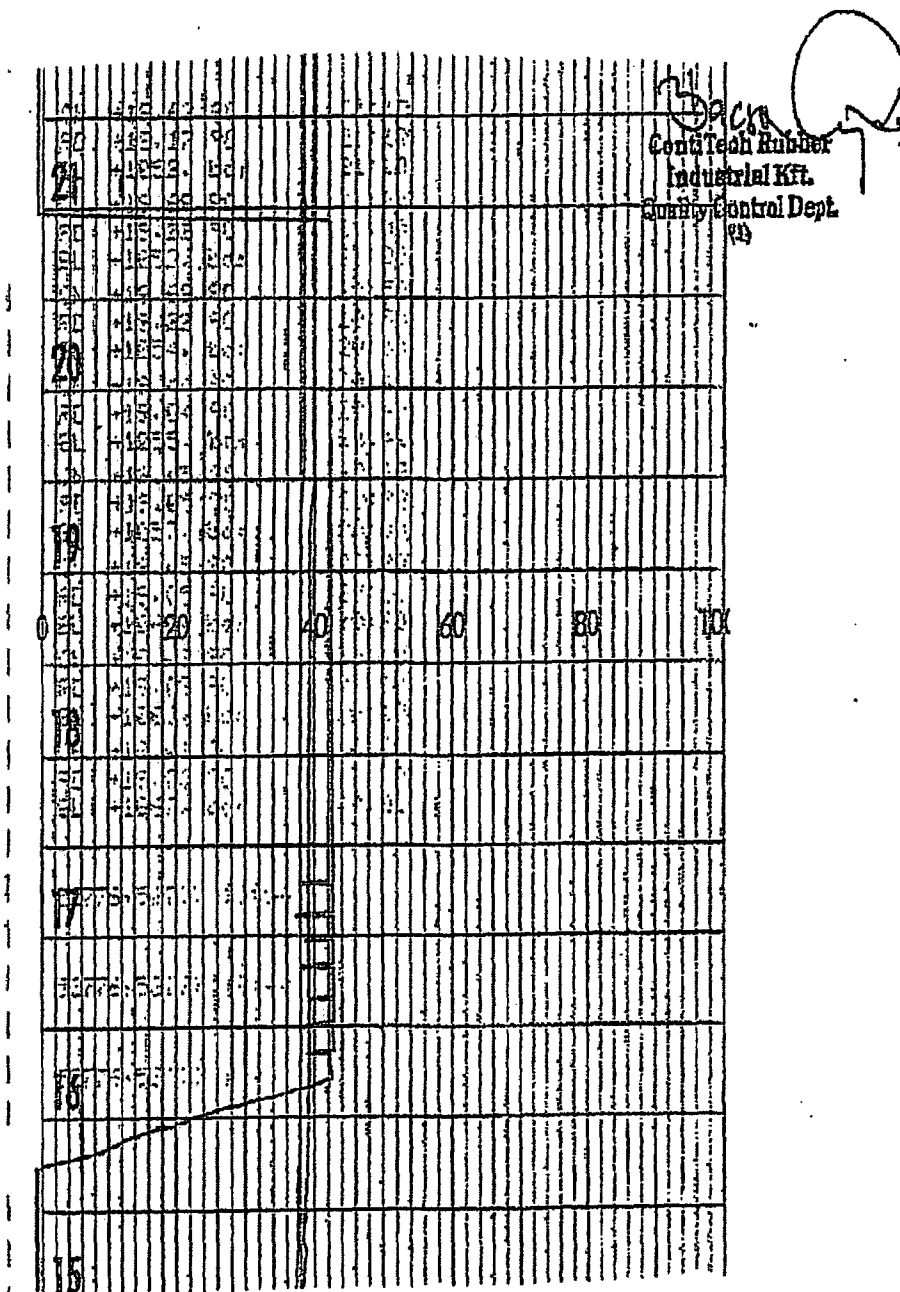
Fluid Technology

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 4 1/16" Flange end	917	913	AISI 4130	T7998A	
			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: 04. April. 2008	Inspector		Quality Control   ContiTech Rubber Industrial Kft. Quality Control Dept. (1)		

Coflex Hose Certification

Page: 1/1



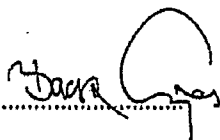
CERTIFICATE OF CONFORMITY

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 : 

Position: Q.C. Manager

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

Date: 04. April. 2008

[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 Beattle Corporation.

05/23/01

Coflex Hose Certification

TI
I
W

Coflex Hose Certification

FH-4

Form No 100/12



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 68X Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 68X 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.



Phoenix Beattie Corp

11535 Brittonore 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 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
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

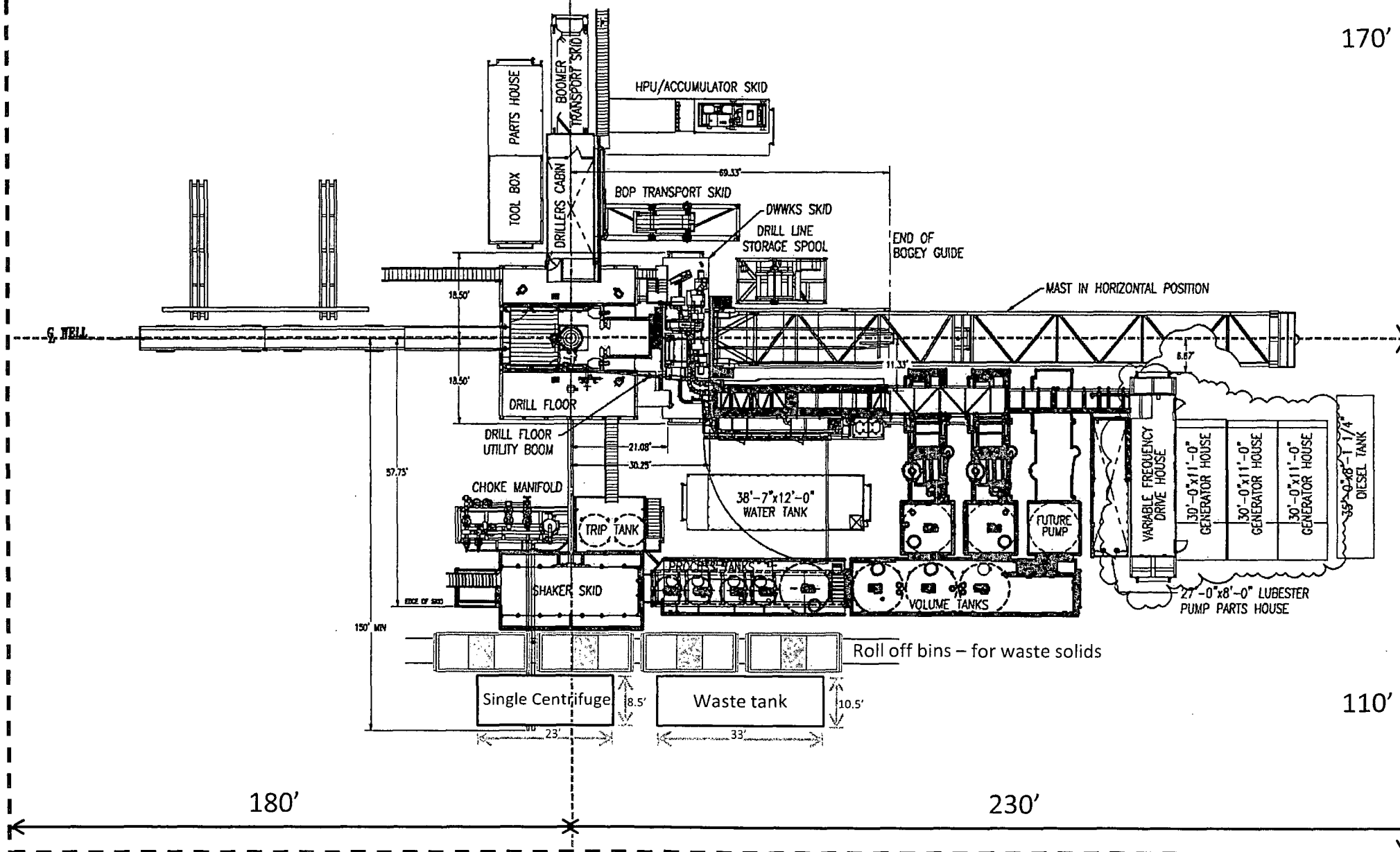
Print Name

Date

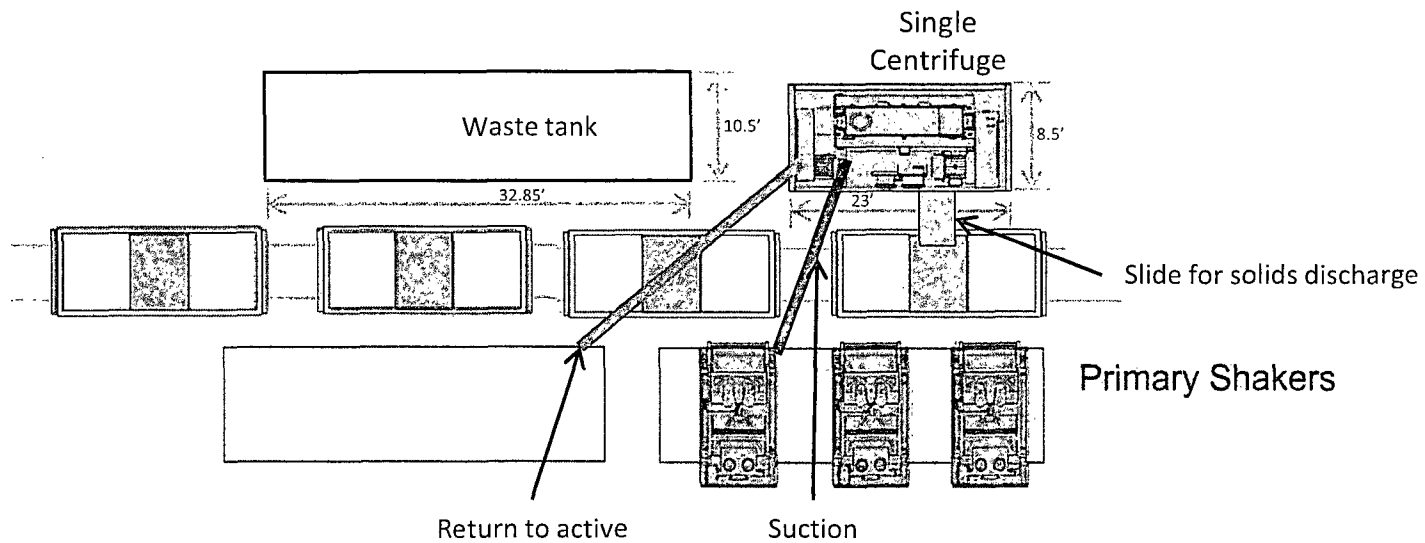
All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days.
Returns may be subject to a handling charge.

Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

May 28, 2013



Oxy



Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III
May 28, 2013

CL-2

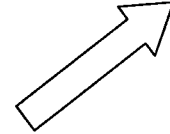
 H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

 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



Exit to road. Caution sign placed here.

Primary Briefing Area

