ATS-13-820

HOBBS OCD

NOV 10 2014

SECRETARY'S POTASH

OCD Hobbs

RECEIVED

Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
S-NMNM105891 B-NMNM106695

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
NM126140X

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

8. Lease Name and Well No. (39664)
Speak Easy Federal Unit #3H

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

9. API Well No.
30-025- 42265

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

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

10. Field and Pool, or Exploratory (96925)
Bootleg Ridge Delaware, NW

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface 1980 FSL 330 FEL NESE (I)
At proposed prod. zone 1980 FSL 330 FWL NWSW (L)

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 2 T22S R32E

14. Distance in miles and direction from nearest town or post office*
28 miles east from Eunice, 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
400ac 519.84

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'-40095 684'-40306

19. Proposed Depth
12845'M 8541'V

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

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3646.4' GL

22. Approximate date work will start*
11/01/2013

23. Estimated duration
35 days

24. Attachments

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

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

25. Signature — Name (Printed/Typed): David Stewart — Date: 5/21/13

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.

OCD CONDITION OF APPROVAL;
Operator must be in compliance with NMOCD Rule 5.9 prior to transporting or selling product.
Carlsbad Controlled Water Basin

11/12/14

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

NOV 14 2014

OXY USA Inc.
Speak Easy Federal Unit #3H
APD Drilling Data (3)

OPERATOR NAME / NUMBER: OXY USA Inc.

LEASE NAME / NUMBER: Speak Easy Fed Unit #3H – Federal Unit No. NM126140X

STATE: NM **COUNTY:** Lea

POOL NAME/NUMBER: Bootleg Ridge Delaware, NW - 6925

SURFACE LOCATION: 1980 FSL 330 FEL NESE(I) Sec 2 T22S R32E – NMNM109891
SL: LAT: 32.4188853N LONG:103.6375298W X:714711.3 Y:516803.6 NAD: 27

BOTTOM HOLE LOCATION: 1980' FSL 330 FWL NWSW(L) Sec 2 T22S R32E – NMNM106695
SL: LAT: 32.4188853N LONG:103.6375298W X:714711.3 Y:516803.6 NAD: 27

C-102 PLAT APPROX GR ELEV: 3646.4' **EST KB ELEV:** 3671.4' (25' 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 Fluids
T. Rustler	951	None
Salado (T. Salt)	1271	None
Base of Salt	4641	None
T. Lamar (B. Anhydrite)	4691	None
Bell Canyon	4831	Oil, Gas
Cherry Canyon	5661	Oil, Gas
Brushy Canyon	6921	Oil, Gas
Brushy Canyon A4 Sand LP	8541	Oil, Gas
Brushy Canyon A4 Sand BHL	8541	Oil, Gas
Bone Springs	8734	

Fresh water may be present above the Rustler. Surface casing will be set inside the Rustler to isolate any potential fresh water. 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.

GREATEST PROJECTED TD 12,845 MD / 8,541' TVD **OBJECTIVE:** Brushy Canyon A4 Sand

3. **CASING PROGRAM**

Surface Casing: New13.375" casing set at ± 1000' MD/ 1000' TVD in a 16" hole filled with 8.6 ppg mud

Interval 1060'	Length 1060'	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-~~1000~~'	~~1000~~'	48	H-40	STC	770	1730	322	12.715	12.559	1.90	2.33	2.29

Intermediate Casing: New 9.625" casing set at ± 4790'MD / 4790' TVD in a 12.25" hole filled with 10.2 ppg mud

Interval 4700'	Length 4700'	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-~~4790~~'	~~4790~~'	40	J-55	LTC	2570	3950	520	8.835	8.75	1.61	1.32	1.99

Production Casing: New 5.5" casing set at ± 12845'MD / 8541'TVD in a 8.5" hole filled with 9.2 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'- 12845'	12845'	17	L-80	BTC	6290	7740	397(tbg)	4.892	4.767	1.51	1.25	1.76

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	Ft of	~~Type~~	~~Gal/Sk~~	~~PPG~~	~~Ft³/sk~~	24 Hr

	sx	Fill					Comp
Surface (TOC: 0' –1000')		13 3/8"					
Lead: 0' – 684' (125% Excess)	380	684	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 4% Bentonite (Light Weight Additive), 1% Calcium Chloride – Flake (Accelerator), 0.25 lbm/sk Poly-E-Flake (Lost Circulation Additive)	9.12	13.5	1.73	1069 psi
Tail: 684' – 1060' (125% Excess)	250	316	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement), 2% Calcium Chloride – Flake (Accelerator)	6.37	14.8	1.35	1425 psi

See COA

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft³/sk	24 Hr Comp
Intermediate (TOC: 0' –4790')		9 5/8"					
Lead: 0' – 4190' (105% Excess)	1340	4190	Light Premium Plus Cement: 5% Salt (Salt), 0.35% HR-800 (Retarder)	9.84	12.9	1.85	734 psi
Tail: 4190' – 4790' (105 % Excess)	310	600	Premium Plus Cement: 94 lbm/sk Premium Plus Cement (Cement)	6.34	14.8	1.33	1849 psi

See COA

Production Interval 5 1/2"

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft3/sk	24 Hr Comp
Production (0'-12845) 1st Stage							
Lead: 0' – 7880' (100 % Excess)	1050	7880	Tuned Light ™ System 3 lbm/sk Kol-Seal (Light Weight Additive) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	12.04	10.5	2.68	940 psi 500 psi @ 13h 35min
Tail: 7880' – 12845' (40 % Excess)	980	4965	Super H Cement: 0.5% Halad(R)-344 (Low Fluid Loss Control), 0.4% CFR-3 (Dispersant) 2 lbm/sk Kol-Seal (Lost Circulation Additive), 3 lbm/sk Salt (Salt) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 0.1% HR-601 (Retarder)	8.42	13.2	1.65	1275 psi
DV Tool @ 4840'							
Production (TOC: 0') 2nd Stage							
Lead: 0' – 4418' (10% Excess)	620	4418	Light Premium Plus: 3 lbm/sk Salt (Salt)	11.39	12.4	2.05	450 psi 500#-29hr
Tail: 4418' – 4840' (10% Excess)	100	422	Premium Cement: 94 lbm/sk Premium Cement (Cement)	6.34	14.8	1.33	1849 psi

See COA

Note: If losses are encountered while drilling the intermediate hole, a multiple stage cement job will be performed using stage tools. A Sundry will be sent in with the stage tool depths and revised cement plan prior to pumping the cement job.

Note: Contingency second stage will be pumped if lost circulation is present during the first stage and cement is not brought to surface. If good cement returns are seen after cementing the first stage of the production casing a cancelation plug will be pumped and no 2nd stage cement job will be perfomed.

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0 – 1000' None.

Intermediate & Production: 1000 – 12845 / 8541 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 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.

MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – ~~1000'~~ 1060'	8.4 – 8.9	32 – 36	NC	Fresh Water /Spud Mud
~~1000'~~ – ~~4790'~~ 4700'	9.8 – 10.2	28 – 35	NC	Brine Water
~~4790'~~ – 7000'	8.8 – 9.2	26 - 32	NC	Cut Brine
7000' – TD'	9.2 – 9.4	32 - 50	<10	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.

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.

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**

See COA

8. LOGGING / CORING AND TESTING PROGRAM:

See COA

A. Mud Logger: Base of Surface Casing to TD.

B. DST's: None.

C. Open Hole Logs as follows: No wireline logs. MWD GR from base of Intermediate casing to TD.

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. The bottom hole pressure is anticipated to be between **4040 psi**.

C. No abnormal temperatures or pressures are anticipated. **The highest anticipated pressure gradient is 0.473 psi**. 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. COMPANY PERSONNEL:

Name	Title	Office Phone	Mobile Phone
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

NMOSE

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 1, 2, 3, 10, 11, 12 **Township:** 22S **Range:** 32E

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 34, 35, 36 **Township:** 21S **Range:** 32E

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 31 **Township:** 21S **Range:** 33E

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 6, 7 **Township:** 22S **Range:** 33E

Planned Wellpath Report

Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Slot #3H**
Area	**Lea County, New Mexico**	Well	**No. 3H**
Field	**(Speakeasy) Sec 2, T22S, R32E**	Wellbore	**No. 3H (PWB)**
Facility	**Speakeasy No. 3H**		

REPORT SETUP INFORMATION			
Projection System	**NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet**	Software System	**WellArchitect® 3.0.0**
North Reference	**Grid**	User	**Lemachrl**
Scale	**0.999962**	Report Generated	**2/13/2013** at **1:16:29 PM**
Convergence at slot	**0.37° East**	Database/Source file	**WA_Midland/No._3H__PWB__.xml**

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	**East[ft]**	**Easting[US ft]**	**Northing[US ft]**	**Latitude**	**Longitude**
Slot Location	**0.00**	**0.00**	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W
Facility Reference Pt			**714711.30**	**516803.60**	32°25'07.987"N	103°38'15.108"W
Field Reference Pt			**0.00**	**0.00**	30°59'24.512"N	105°55'44.137"W

WELLPATH DATUM			
Calculation method	**Minimum curvature**	Rig on Slot #3H (RT) to Facility Vertical Datum	**25.00ft**
Horizontal Reference Pt	**Slot**	Rig on Slot #3H (RT) to Mean Sea Level	**3671.40ft**
Vertical Reference Pt	**Rig on Slot #3H (RT)**	Rig on Slot #3H (RT) to Mud Line at Slot (Slot #3H)	**25.00ft**
MD Reference Pt	**Rig on Slot #3H (RT)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**269.44°**

DD-1

Planned Wellpath Report

Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Slot #3H**
Area	**Lea County, New Mexico**	Well	**No. 3H**
Field	**(Speakeasy) Sec 2, T22S, R32E**	Wellbore	**No. 3H (PWB)**
Facility	**Speakeasy No. 3H**		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
0.00	0.000	269.437	0.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
100.00†	0.000	269.437	100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
200.00†	0.000	269.437	200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
300.00†	0.000	269.437	300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
400.00†	0.000	269.437	400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
500.00†	0.000	269.437	500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
600.00†	0.000	269.437	600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
700.00†	0.000	269.437	700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
800.00†	0.000	269.437	800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
900.00†	0.000	269.437	900.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1000.00†	0.000	269.437	1000.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1100.00†	0.000	269.437	1100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1200.00†	0.000	269.437	1200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1300.00†	0.000	269.437	1300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1400.00†	0.000	269.437	1400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1500.00†	0.000	269.437	1500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1600.00†	0.000	269.437	1600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1700.00†	0.000	269.437	1700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1800.00†	0.000	269.437	1800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
1900.00†	0.000	269.437	1900.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2000.00†	0.000	269.437	2000.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2100.00†	0.000	269.437	2100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2200.00†	0.000	269.437	2200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2300.00†	0.000	269.437	2300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2400.00†	0.000	269.437	2400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2500.00†	0.000	269.437	2500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2600.00†	0.000	269.437	2600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2700.00†	0.000	269.437	2700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2800.00†	0.000	269.437	2800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
2900.00†	0.000	269.437	2900.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00

DP-2

Planned Wellpath Report

Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Slot #3H**
Area	**Lea County, New Mexico**	Well	**No. 3H**
Field	**(Speakeasy) Sec 2, T22S, R32E**	Wellbore	**No. 3H (PWB)**
Facility	**Speakeasy No. 3H**		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
3000.00†	0.000	269.437	3000.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3100.00†	0.000	269.437	3100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3200.00†	0.000	269.437	3200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3300.00†	0.000	269.437	3300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3400.00†	0.000	269.437	3400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3500.00†	0.000	269.437	3500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3600.00†	0.000	269.437	3600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3700.00†	0.000	269.437	3700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3800.00†	0.000	269.437	3800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
3900.00†	0.000	269.437	3900.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4000.00†	0.000	269.437	4000.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4100.00†	0.000	269.437	4100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4200.00†	0.000	269.437	4200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4300.00†	0.000	269.437	4300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4400.00†	0.000	269.437	4400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4500.00†	0.000	269.437	4500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4600.00†	0.000	269.437	4600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4700.00†	0.000	269.437	4700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4800.00†	0.000	269.437	4800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
4900.00†	0.000	269.437	4900.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5000.00†	0.000	269.437	5000.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5100.00†	0.000	269.437	5100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5200.00†	0.000	269.437	5200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5300.00†	0.000	269.437	5300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5400.00†	0.000	269.437	5400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5500.00†	0.000	269.437	5500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5600.00†	0.000	269.437	5600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5700.00†	0.000	269.437	5700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5800.00†	0.000	269.437	5800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
5900.00†	0.000	269.437	5900.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00

DP-W

Planned Wellpath Report

Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Slot #3H**
Area	**Lea County, New Mexico**	Well	**No. 3H**
Field	**(Speakeasy) Sec 2, T22S, R32E**	Wellbore	**No. 3H (PWB)**
Facility	**Speakeasy No. 3H**		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
6000.00†	0.000	269.437	6000.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6100.00†	0.000	269.437	6100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6200.00†	0.000	269.437	6200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6300.00†	0.000	269.437	6300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6400.00†	0.000	269.437	6400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6500.00†	0.000	269.437	6500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6600.00†	0.000	269.437	6600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6700.00†	0.000	269.437	6700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6800.00†	0.000	269.437	6800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
6900.00†	0.000	269.437	6900.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7000.00†	0.000	269.437	7000.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7100.00†	0.000	269.437	7100.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7200.00†	0.000	269.437	7200.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7300.00†	0.000	269.437	7300.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7400.00†	0.000	269.437	7400.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7500.00†	0.000	269.437	7500.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7600.00†	0.000	269.437	7600.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7700.00†	0.000	269.437	7700.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7800.00†	0.000	269.437	7800.00	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7824.80†	0.000	269.437	7824.80	0.00	0.00	0.00	714711.30	516803.60	32°25'07.987"N	103°38'15.108"W	0.00	0.000	0.00
7900.00†	6.016	269.437	7899.86	3.94	-0.04	-3.94	714707.36	516803.56	32°25'07.987"N	103°38'15.154"W	3.94	269.437	8.00
8000.00†	14.016	269.437	7998.26	21.32	-0.21	-21.32	714689.98	516803.39	32°25'07.987"N	103°38'15.356"W	21.32	269.437	8.00
8100.00†	22.016	269.437	8093.28	52.22	-0.51	-52.22	714659.08	516803.09	32°25'07.986"N	103°38'15.717"W	52.22	269.437	8.00
8200.00†	30.016	269.437	8183.07	96.05	-0.94	-96.05	714615.26	516802.66	32°25'07.984"N	103°38'16.228"W	96.05	269.437	8.00
8300.00†	38.016	269.437	8265.89	151.95	-1.49	-151.94	714559.37	516802.11	32°25'07.982"N	103°38'16.880"W	151.95	269.437	8.00
8400.00†	46.016	269.437	8340.13	218.83	-2.15	-218.82	714492.49	516801.45	32°25'07.980"N	103°38'17.660"W	218.83	269.437	8.00
8500.00†	54.016	269.437	8404.33	295.39	-2.90	-295.37	714415.94	516800.70	32°25'07.978"N	103°38'18.553"W	295.39	269.437	8.00
8600.00†	62.016	269.437	8457.26	380.14	-3.73	-380.12	714331.20	516799.87	32°25'07.975"N	103°38'19.542"W	380.14	269.437	8.00
8700.00†	70.016	269.437	8497.88	471.43	-4.63	-471.41	714239.91	516798.97	32°25'07.972"N	103°38'20.607"W	471.43	269.437	8.00
8800.00†	78.016	269.437	8525.39	567.48	-5.58	-567.46	714143.87	516798.03	32°25'07.969"N	103°38'21.727"W	567.48	269.437	8.00

Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Slot #3H**
Area	**Lea County, New Mexico**	Well	**No. 3H**
Field	**(Speakeasy) Sec 2, T22S, R32E**	Wellbore	**No. 3H (PWB)**
Facility	**Speakeasy No. 3H**		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
8900.00†	86.016	269.437	8539.27	666.43	-6.55	-666.40	714044.92	516797.05	32°25'07.965"N	103°38'22.882"W	666.43	269.437	8.00
8949.80	90.000	269.437	8541.00	716.20	-7.04	-716.16	713995.17	516796.56	32°25'07.964"N	103°38'23.462"W	716.20	269.437	8.00
9000.00†	90.000	269.437	8541.00	766.39	-7.53	-766.36	713944.97	516796.07	32°25'07.962"N	103°38'24.048"W	766.39	269.437	0.00
9100.00†	90.000	269.437	8541.00	866.39	-8.51	-866.35	713844.98	516795.09	32°25'07.959"N	103°38'25.214"W	866.39	269.437	0.00
9200.00†	90.000	269.437	8541.00	966.39	-9.49	-966.35	713744.99	516794.11	32°25'07.956"N	103°38'26.381"W	966.39	269.437	0.00
9300.00†	90.000	269.437	8541.00	1066.39	-10.48	-1066.34	713645.00	516793.12	32°25'07.952"N	103°38'27.547"W	1066.39	269.437	0.00
9400.00†	90.000	269.437	8541.00	1166.39	-11.46	-1166.34	713545.01	516792.14	32°25'07.949"N	103°38'28.714"W	1166.39	269.437	0.00
9500.00†	90.000	269.437	8541.00	1266.39	-12.44	-1266.33	713445.02	516791.16	32°25'07.946"N	103°38'29.880"W	1266.39	269.437	0.00
9600.00†	90.000	269.437	8541.00	1366.39	-13.42	-1366.33	713345.03	516790.18	32°25'07.942"N	103°38'31.047"W	1366.39	269.437	0.00
9700.00†	90.000	269.437	8541.00	1466.39	-14.41	-1466.32	713245.04	516789.19	32°25'07.939"N	103°38'32.213"W	1466.39	269.437	0.00
9800.00†	90.000	269.437	8541.00	1566.39	-15.39	-1566.32	713145.04	516788.21	32°25'07.936"N	103°38'33.380"W	1566.39	269.437	0.00
9900.00†	90.000	269.437	8541.00	1666.39	-16.37	-1666.31	713045.05	516787.23	32°25'07.932"N	103°38'34.547"W	1666.39	269.437	0.00
10000.00†	90.000	269.437	8541.00	1766.39	-17.35	-1766.31	712945.06	516786.25	32°25'07.929"N	103°38'35.713"W	1766.39	269.437	0.00
10100.00†	90.000	269.437	8541.00	1866.39	-18.34	-1866.30	712845.07	516785.27	32°25'07.926"N	103°38'36.880"W	1866.39	269.437	0.00
10200.00†	90.000	269.437	8541.00	1966.39	-19.32	-1966.30	712745.08	516784.28	32°25'07.922"N	103°38'38.046"W	1966.39	269.437	0.00
10300.00†	90.000	269.437	8541.00	2066.39	-20.30	-2066.29	712645.09	516783.30	32°25'07.919"N	103°38'39.213"W	2066.39	269.437	0.00
10400.00†	90.000	269.437	8541.00	2166.39	-21.28	-2166.29	712545.10	516782.32	32°25'07.916"N	103°38'40.379"W	2166.39	269.437	0.00
10500.00†	90.000	269.437	8541.00	2266.39	-22.27	-2266.29	712445.11	516781.34	32°25'07.912"N	103°38'41.546"W	2266.39	269.437	0.00
10600.00†	90.000	269.437	8541.00	2366.39	-23.25	-2366.28	712345.11	516780.35	32°25'07.909"N	103°38'42.712"W	2366.39	269.437	0.00
10700.00†	90.000	269.437	8541.00	2466.39	-24.23	-2466.28	712245.12	516779.37	32°25'07.906"N	103°38'43.879"W	2466.39	269.437	0.00
10800.00†	90.000	269.437	8541.00	2566.39	-25.21	-2566.27	712145.13	516778.39	32°25'07.902"N	103°38'45.045"W	2566.39	269.437	0.00
10900.00†	90.000	269.437	8541.00	2666.39	-26.19	-2666.27	712045.14	516777.41	32°25'07.899"N	103°38'46.212"W	2666.39	269.437	0.00
11000.00†	90.000	269.437	8541.00	2766.39	-27.18	-2766.26	711945.15	516776.42	32°25'07.895"N	103°38'47.378"W	2766.39	269.437	0.00
11100.00†	90.000	269.437	8541.00	2866.39	-28.16	-2866.26	711845.16	516775.44	32°25'07.892"N	103°38'48.545"W	2866.39	269.437	0.00
11200.00†	90.000	269.437	8541.00	2966.39	-29.14	-2966.25	711745.17	516774.46	32°25'07.889"N	103°38'49.711"W	2966.39	269.437	0.00
11300.00†	90.000	269.437	8541.00	3066.39	-30.12	-3066.25	711645.18	516773.48	32°25'07.885"N	103°38'50.878"W	3066.39	269.437	0.00
11400.00†	90.000	269.437	8541.00	3166.39	-31.11	-3166.24	711545.19	516772.49	32°25'07.882"N	103°38'52.045"W	3166.39	269.437	0.00
11500.00†	90.000	269.437	8541.00	3266.39	-32.09	-3266.24	711445.19	516771.51	32°25'07.879"N	103°38'53.211"W	3266.39	269.437	0.00
11600.00†	90.000	269.437	8541.00	3366.39	-33.07	-3366.23	711345.20	516770.53	32°25'07.875"N	103°38'54.378"W	3366.39	269.437	0.00
11700.00†	90.000	269.437	8541.00	3466.39	-34.05	-3466.23	711245.21	516769.55	32°25'07.872"N	103°38'55.544"W	3466.39	269.437	0.00

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Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Slot #3H**
Area	**Lea County, New Mexico**	Well	**No. 3H**
Field	**(Speakeasy) Sec 2, T22S, R32E**	Wellbore	**No. 3H (PWB)**
Facility	**Speakeasy No. 3H**		

WELLPATH DATA (132 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]
11800.00†	90.000	269.437	8541.00	3566.39	-35.04	-3566.22	711145.22	516768.56	32°25'07.869"N	103°38'56.711"W	3566.39	269.437	0.00
11900.00†	90.000	269.437	8541.00	3666.39	-36.02	-3666.22	711045.23	516767.58	32°25'07.865"N	103°38'57.877"W	3666.39	269.437	0.00
12000.00†	90.000	269.437	8541.00	3766.39	-37.00	-3766.21	710945.24	516766.60	32°25'07.862"N	103°38'59.044"W	3766.39	269.437	0.00
12100.00†	90.000	269.437	8541.00	3866.39	-37.98	-3866.21	710845.25	516765.62	32°25'07.858"N	103°39'00.210"W	3866.39	269.437	0.00
12200.00†	90.000	269.437	8541.00	3966.39	-38.97	-3966.20	710745.26	516764.64	32°25'07.855"N	103°39'01.377"W	3966.39	269.437	0.00
12300.00†	90.000	269.437	8541.00	4066.39	-39.95	-4066.20	710645.26	516763.65	32°25'07.852"N	103°39'02.543"W	4066.39	269.437	0.00
12400.00†	90.000	269.437	8541.00	4166.39	-40.93	-4166.19	710545.27	516762.67	32°25'07.848"N	103°39'03.710"W	4166.39	269.437	0.00
12500.00†	90.000	269.437	8541.00	4266.39	-41.91	-4266.19	710445.28	516761.69	32°25'07.845"N	103°39'04.876"W	4266.39	269.437	0.00
12600.00†	90.000	269.437	8541.00	4366.39	-42.90	-4366.18	710345.29	516760.71	32°25'07.841"N	103°39'06.043"W	4366.39	269.437	0.00
12700.00†	90.000	269.437	8541.00	4466.39	-43.88	-4466.18	710245.30	516759.72	32°25'07.838"N	103°39'07.209"W	4466.39	269.437	0.00
12800.00†	90.000	269.437	8541.00	4566.39	-44.86	-4566.17	710145.31	516758.74	32°25'07.834"N	103°39'08.376"W	4566.39	269.437	0.00
12844.91	90.000	269.437	8541.00	4611.31	-45.30	-4611.08	710100.40	516758.30	32°25'07.833"N	103°39'08.900"W	4611.31	269.437	0.00

Planned Wellpath Report

Rev-A.0

REFERENCE WELLPATH IDENTIFICATION			
Operator	**OXY Permian**	Slot	**Slot #3H**
Area	**Lea County, New Mexico**	Well	**No. 3H**
Field	**(Speakeasy) Sec 2, T22S, R32E**	Wellbore	**No. 3H (PWB)**
Facility	**Speakeasy No. 3H**		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Speakeasy No. 3H PP: Rev-1		8541.00	-4.70	-449.92	**714261.40**	**516798.90**	32°25'07.970"N	103°38'20.356"W	point
1) Speakeasy No. 4H TD/PBHL: Rev-1	12844.91	8541.00	-45.30	-4611.08	**710100.40**	**516758.30**	32°25'07.833"N	103°39'08.900"W	point
Hard Line		9000.00	281.51	-4617.19	**710094.30**	**517085.10**	32°25'11.067"N	103°39'08.947"W	polygon
Lease Line		9000.00	611.52	-4947.20	**709764.30**	**517415.10**	32°25'14.353"N	103°39'12.772"W	polygon

OXY Permian

Location: Lea County, New Mexico
Field: (Speakeasy) Sec 2, T22S, R32E
Facility: Speakeasy No. 3H

Slot: Slot #3H
Well: No. 3H
Wellbore: No. 3H (PWB)

BAKER HUGHES

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	269.437	0.00	0.00	0.00	0.00	0.00
KOP	7824.80	0.000	269.437	7824.80	0.00	0.00	0.00	0.00
EOB/SOH	8949.80	90.000	269.437	8541.00	-7.04	-716.16	8.00	716.20
TD/PBHL	12844.91	90.000	269.437	8541.00	-45.30	-4611.08	0.00	4611.31

Location Information

Facility Name			Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Speakeasy No. 3H			714711.300	516803.600	32°25'07.987"N	103°38'15.108"W
Slot	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot #3H	0.00	0.00	714711.300	516803.600	32°25'07.987"N	103°38'15.108"W

Rig on Slot #3H (RT) to Mud line (At Slot: Slot #3H)	25ft
Mean Sea Level to Mud line (At Slot: Slot #3H)	-3646.4ft
Rig on Slot #3H (RT) to Mean Sea Level	3671.4ft

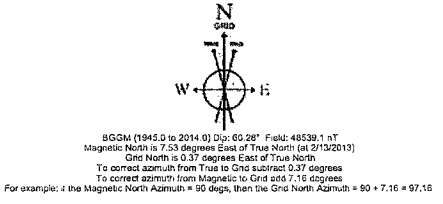
Bottom Hole Location

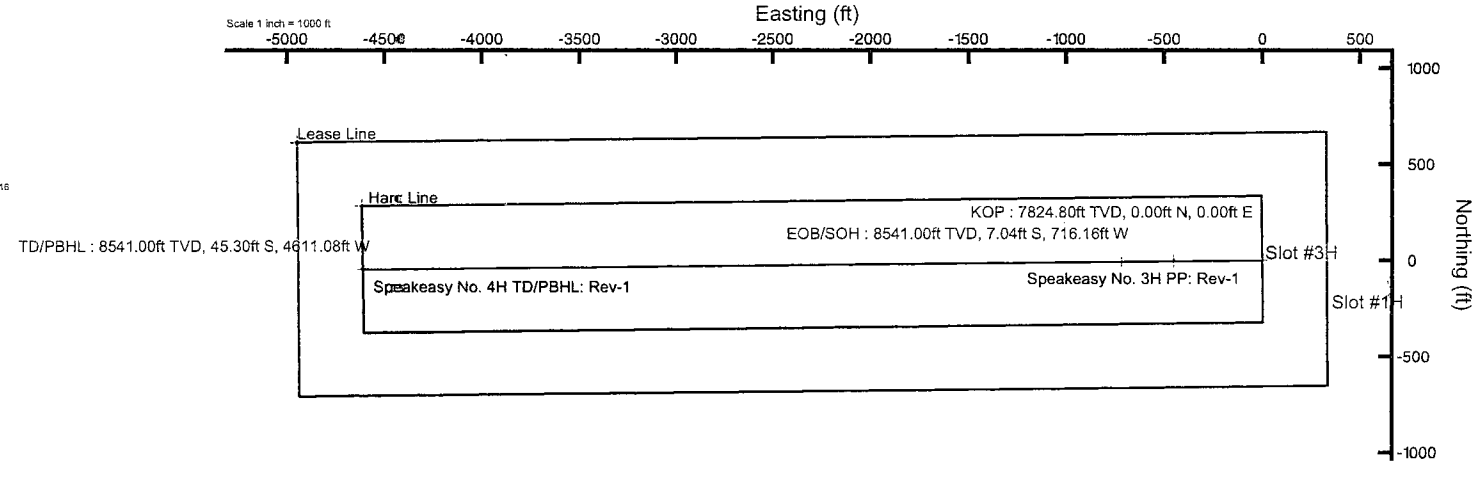
MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
12844.91	90.000	269.437	8541.00	-45.30	-4611.08	710100.40	516758.30	32°25'07.833"N	103°39'08.900"W

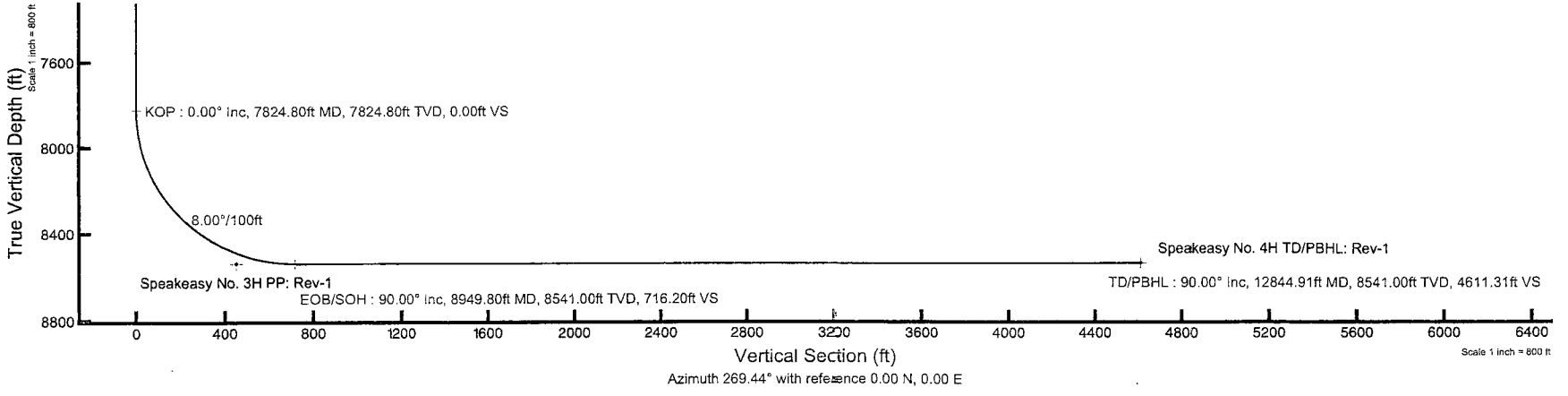
Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Speakeasy No. 3H PP: Rev-1		8541.00	-4.70	-449.92	714261.40	516798.90	32°25'07.970"N	103°38'20.356"W
Speakeasy No. 4H TD/PBHL: Rev-1	12844.91	8541.00	-45.30	-4611.08	710100.40	516758.30	32°25'07.833"N	103°39'08.900"W
Hard Line		9000.00	281.51	-4617.19	710094.30	517085.10	32°25'11.067"N	103°39'08.947"W
Lease Line		9000.00	611.52	-4947.20	709764.30	517415.10	32°25'14.353"N	103°39'12.772"W

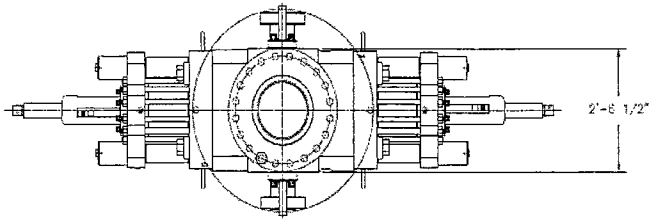
Plot reference wellpath is Rev-A.0	
True vertical depths are referenced to Rig on Slot #3H (RT)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on Slot #3H (RT)	North Reference: Grid north
Rig on Slot #3H (RT) to Mean Sea Level: 3671.4 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: Slot #3H): -3646.4 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: lemachri on 2/13/2013







Rev-A.0



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

SEE LIFT LUG DETAIL

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 = 23,100 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)

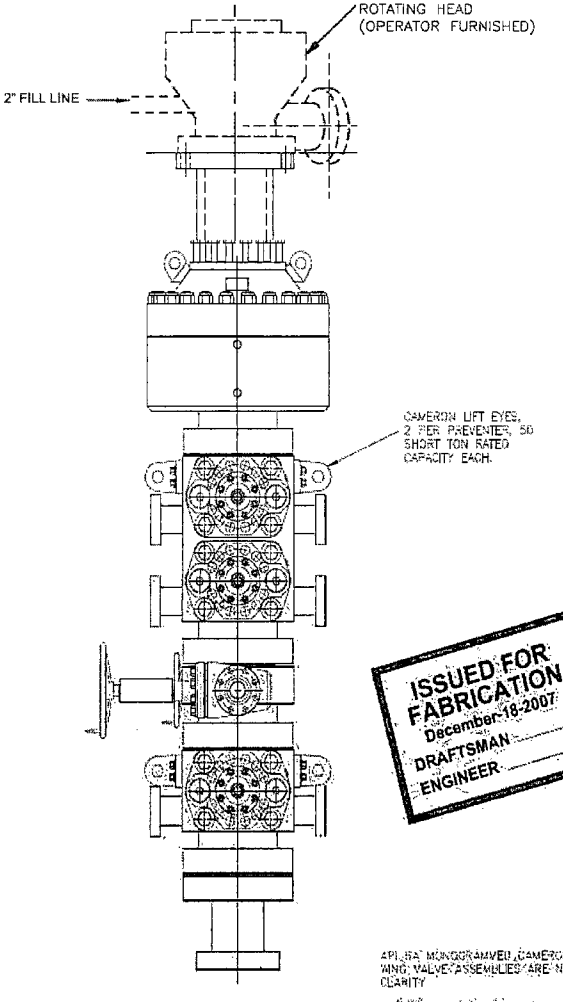
CAMERON UM SINGLE RAM-TYPE PREVENTER (API 16A MONOGRAMMED, 13 5/8"-10M WP), WITH 5" CAMERON PIPE RAMS (CAMRAM FRONT-PACKERS & TOP SEALS) BOTTOM FLANGE STUDDED TOP WEIGHT = 15,800 LBS

3'-11 7/8"
4'-3 7/8"
14'-7 1/2"
1'-8 7/8"
2'-6 7/8"
2'-0"

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

11'-1 5/8" CLOSED
12'-7 3/8" OPERATING
16'-5" OPENED

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



ISSUED FOR FABRICATION
December 18-2007
DRAFTSMAN
ENGINEER

API 16A 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
E	12/18/07	ADDED SHEET 03	JAY		
D	4-10-07	OPERATION VIEWS, DOUBLE STUDDED ADAPTER VALVES (1, 2, 3 & 5) AND, NO THEY VALVE ADDED	JRG		
C	4-04-07	5" ABBETT 13 SPACER ADAPTER SPOOL	JRG		
B	02-07-07	ADDED ADAPTER SPOOL	MAL		
A	08-13-02	CORRECTED BOP STACK	MAL		

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

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

CUSTOMER: H&P

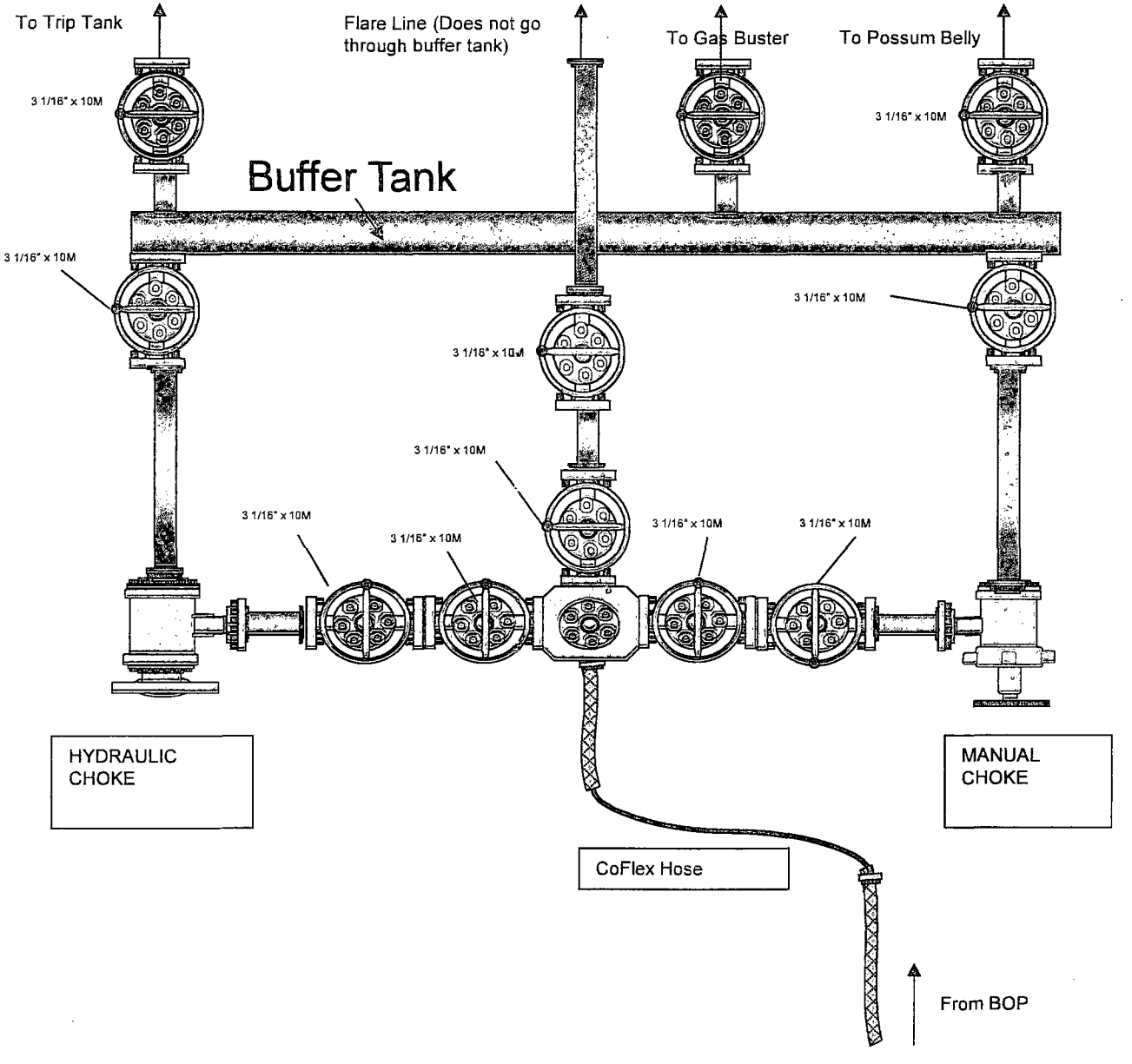
PROJECT: FLEXRIG3

DRAWN: KATE | DATE: 8-5-02 | DRAWING: 210-P1-07 | REV: E

SCALE: 3/4"=1' | SHEET 1 OF 5

B02

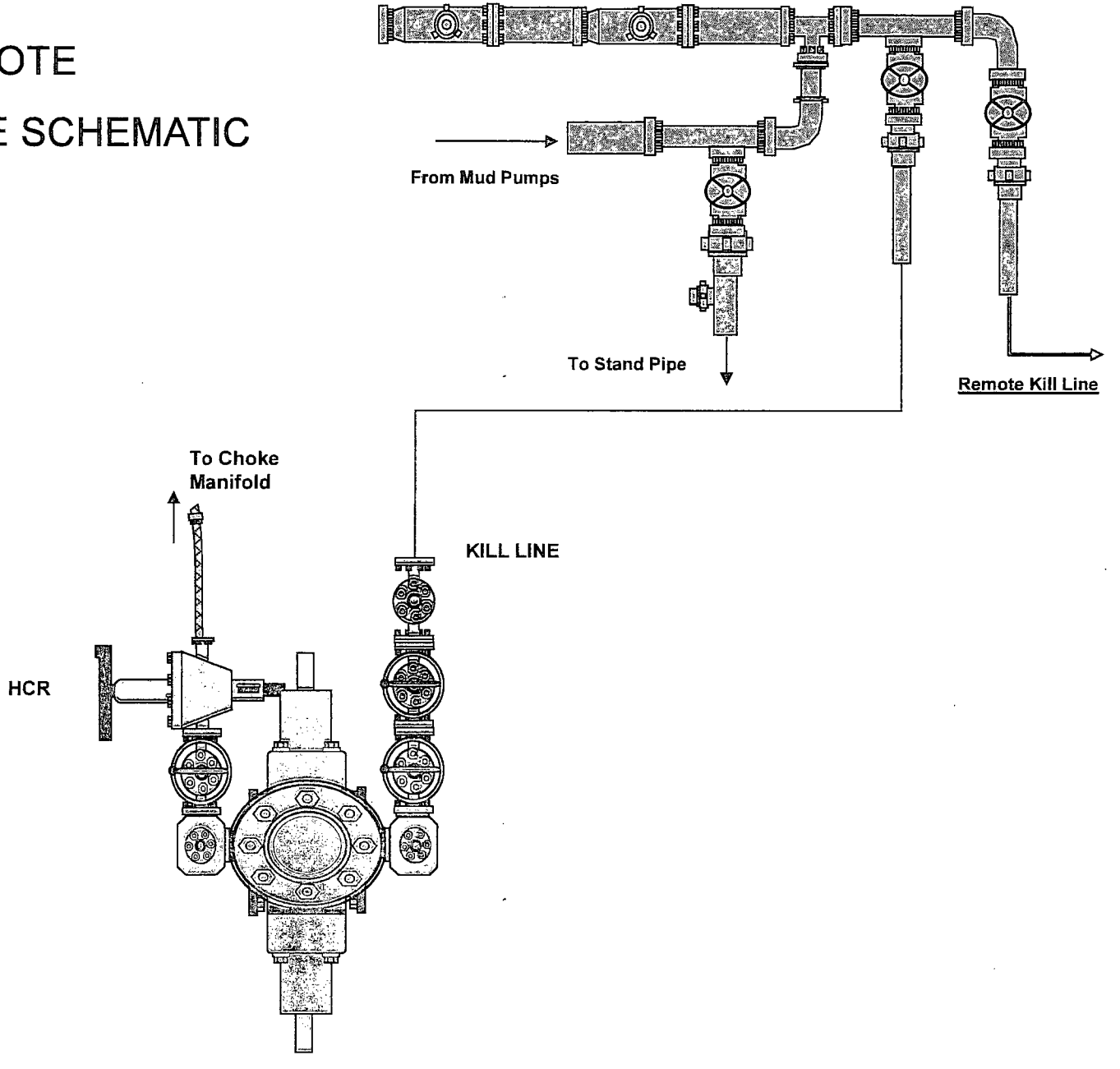
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



CM-1

10M REMOTE

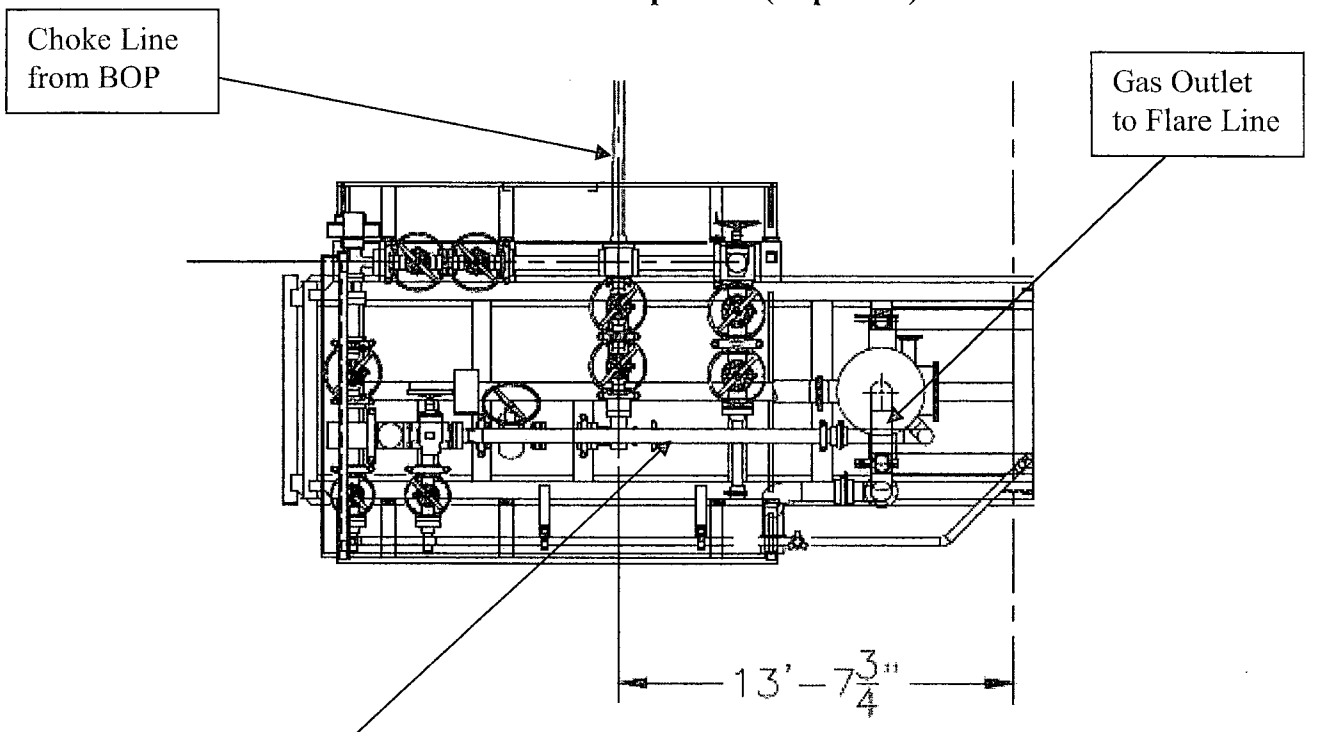
KILL LINE SCHEMATIC



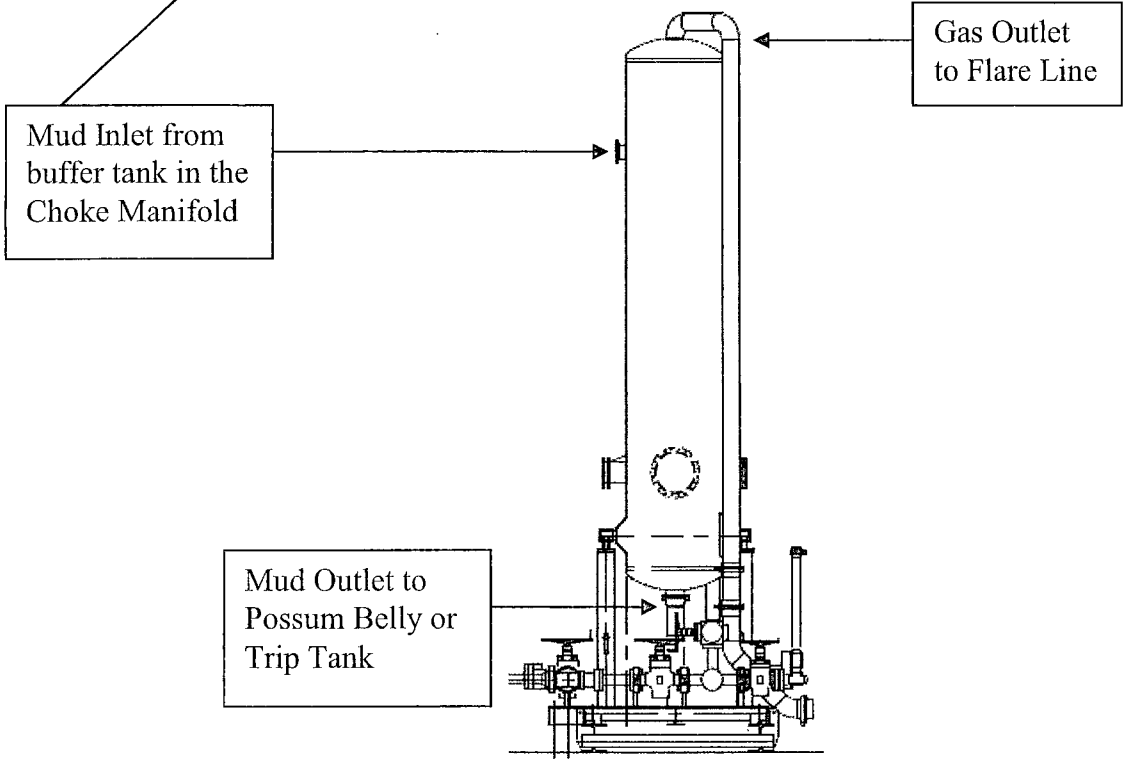
CM-2

CM-3

Choke Manifold – Gas Separator (Top View)

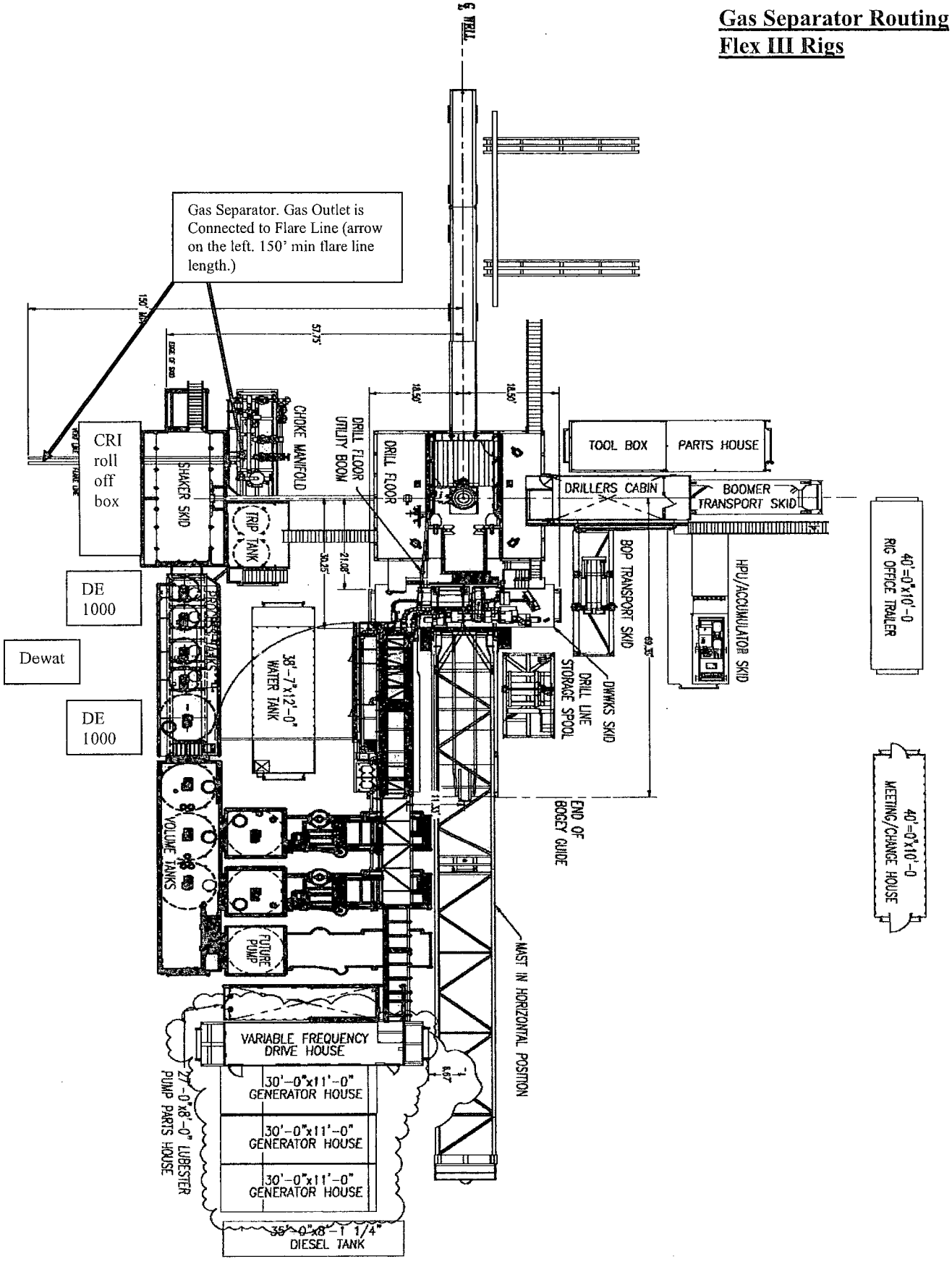


Choke Manifold – Gas Separator (Side View)



CM-4

Gas Separator Routing
Flex III Rigs



FH-1

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 : .....

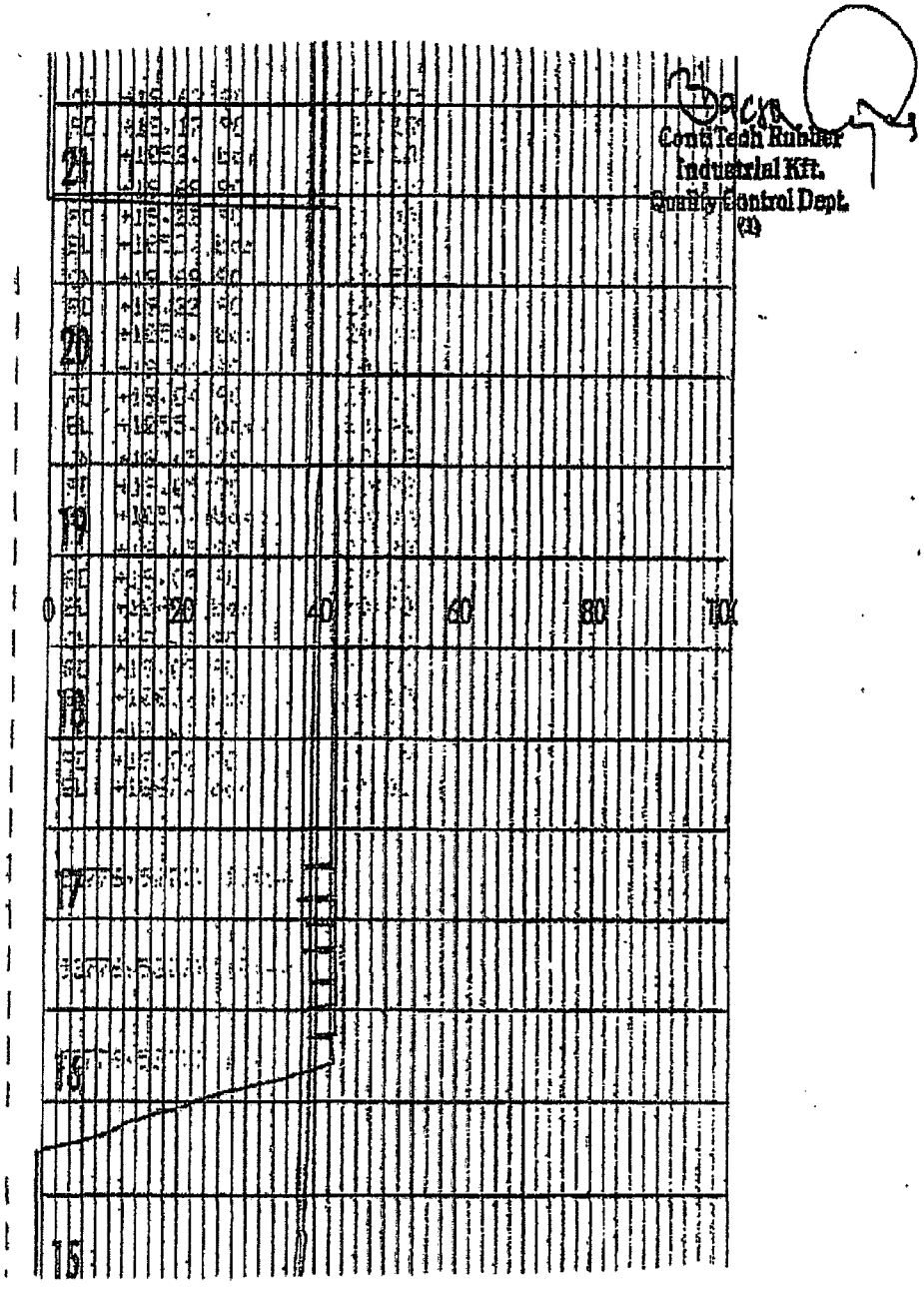
ContiTech Rubber Industrial Kft. Quality Control Dept.

Date: 04. April. 2008

Position: Q.C. Manager

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
HP10CK3A-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	H666		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

FI-3

FH-4

Coflex Hose Certification

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 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

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 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 : _____

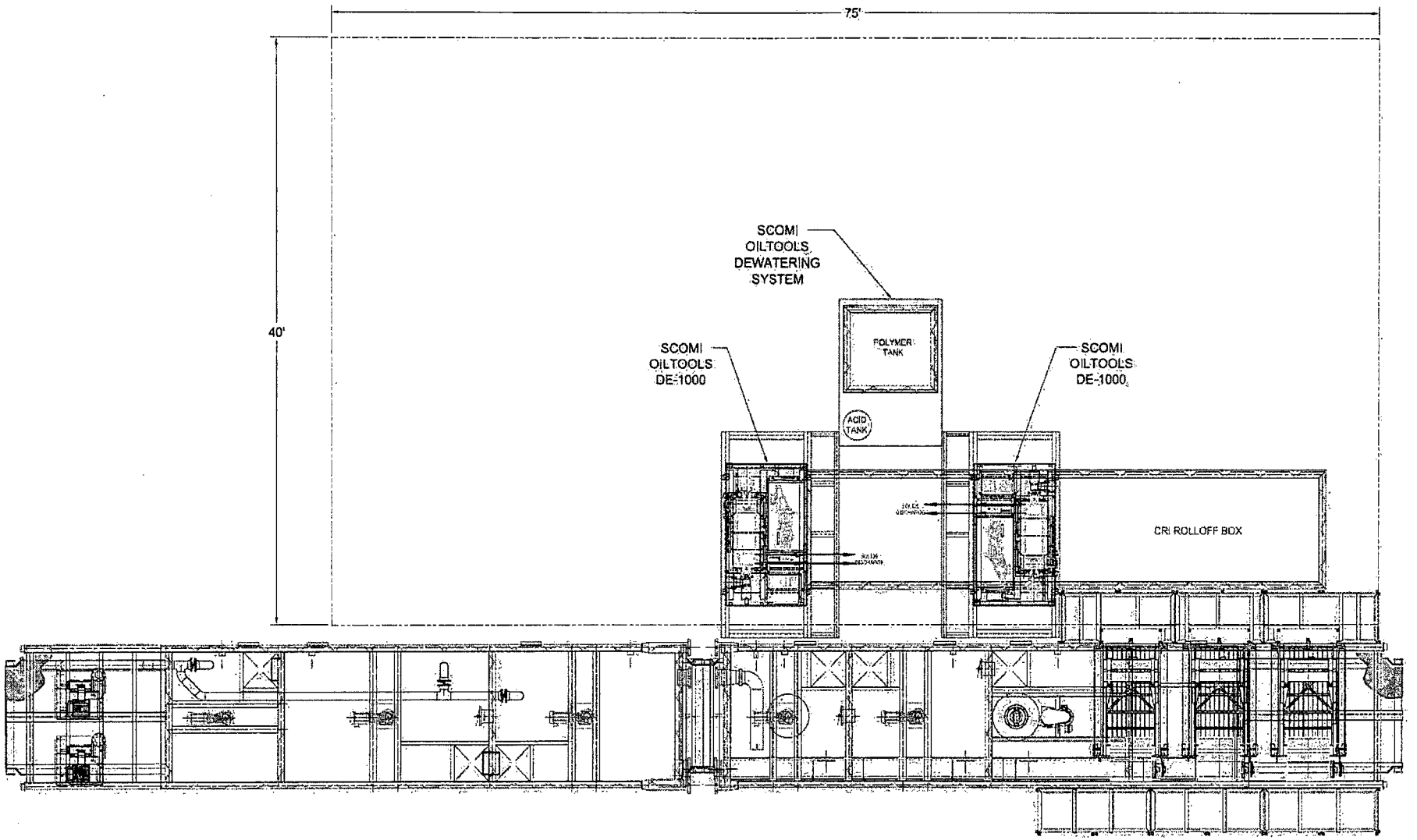
Received In Good Condition : Signature _____

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.

BILL OF MATERIAL			
ITEM	QTY.	DESCRIPTION	LENGTH / WEIGHT



NO.	REVISIONS	BY	CHK'D	APP'D	DATE
A	ADDED PAGE 2 TO SHOW P&ID	PDL	BF		5/12/09

1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36.
2. ALL PIPE SCH. 40 MATERIAL SA 106 Gr. B
3. ALL FLANGES SHALL BE SORF, 150# RF 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	10/30/08		
APPROVED	DATE	SCALE	SIZE (ANSI)
		NTS	D

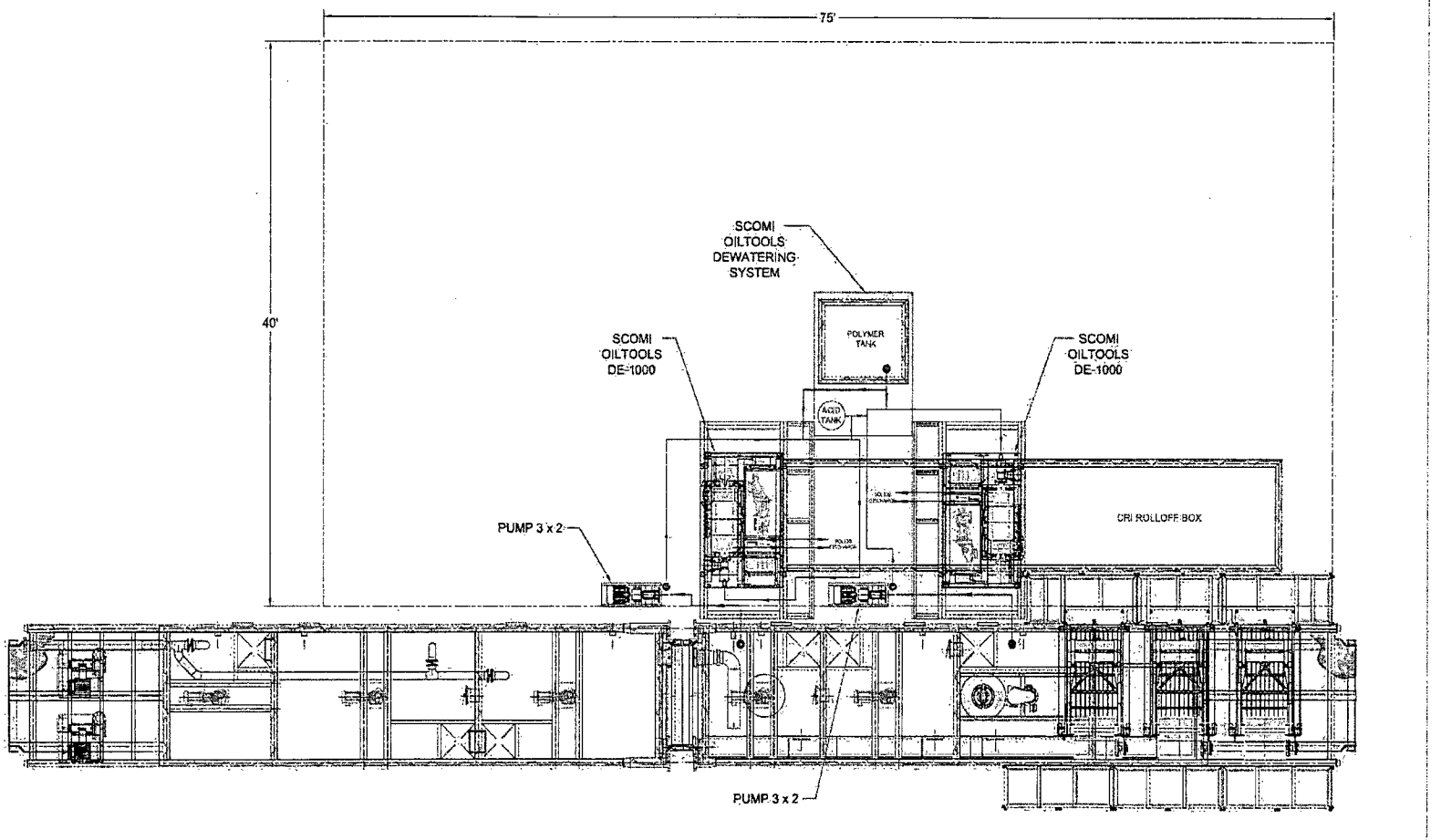
Scomi
521 N. Sam Houston Parkway East, Suite 309, Houston, Texas 77060
PHONE: (281)-260-5010, FAX: (281)-260-5060

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

CE24

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT



NO	REVISION	BY	CHK'D	APP'D	DATE
A	ADDED PAGE 2 TO SHOW PMT.	PEK			8/2/09

1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36.
2. ALL PIPE SHALL BE MATERIAL SA 106 Gr. B
3. ALL FLANGES SHALL BE SCRF., 150# Jr. 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 2 OF 2

DRAWN BY	DATE	CHECKED BY	DATE
PTN	10/30/08		
APPROVED	DATE	SCALE	SIZE
		NTS	D

Scomi

801 N. Post Oak Expressway East, Suite 300,
Houston, Texas 77060
PHONE: (281)-260-8018, FAX: (281)-260-8969

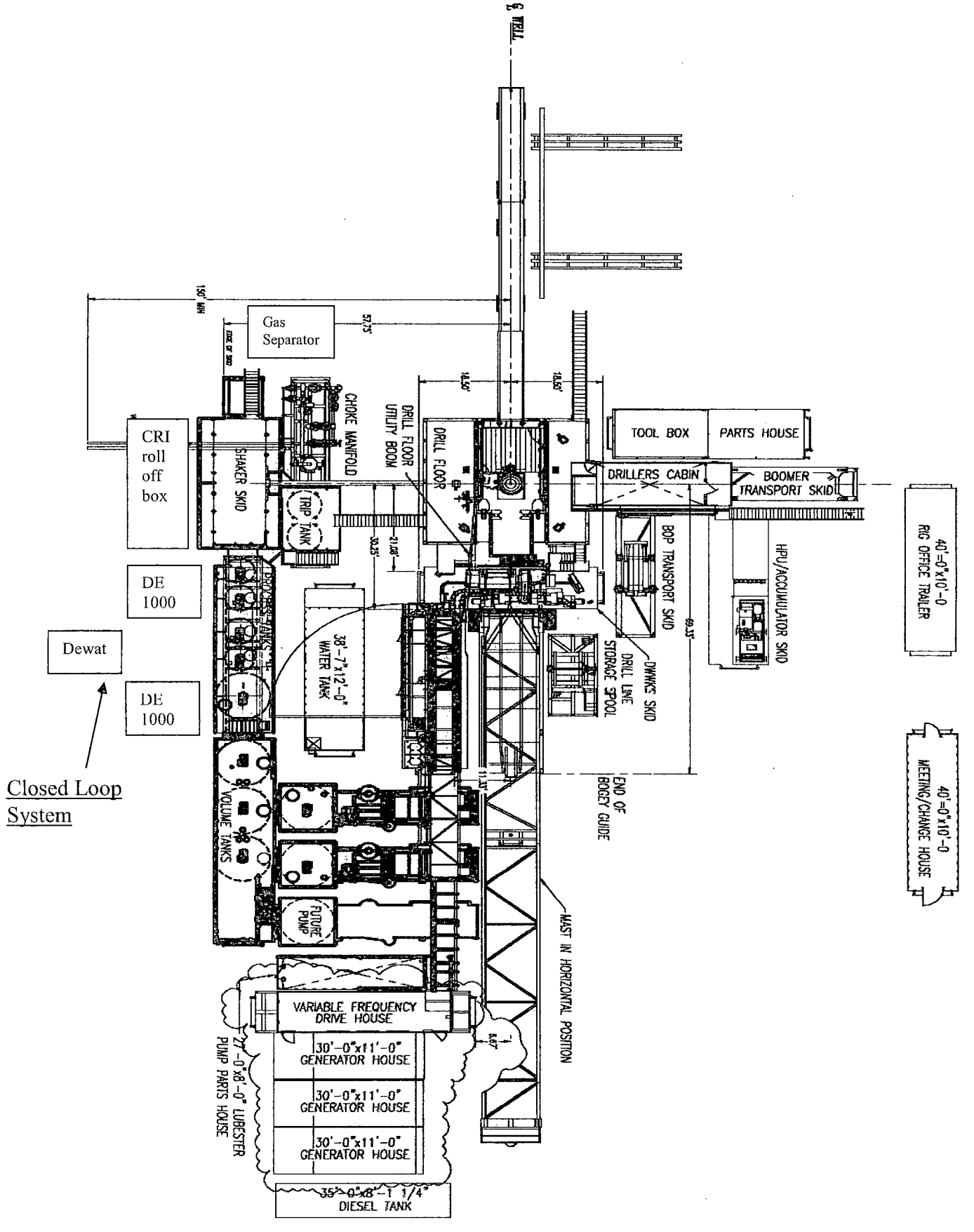
JOB NO.

DRAWING NO. 521S-014

REV. A

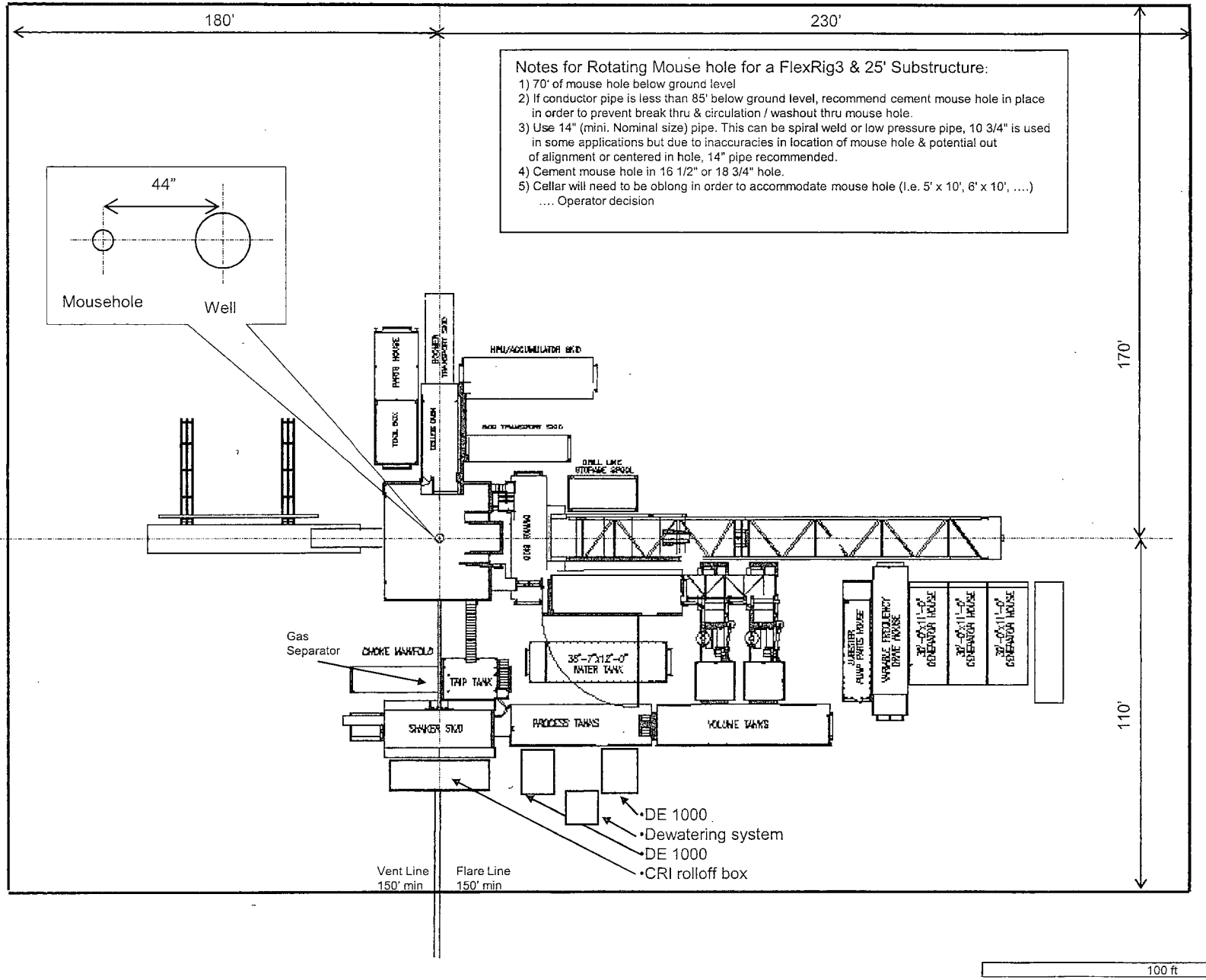
CUBE-5

CLEZ-6


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



CUZ-7

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.**

CLE2-3