

HOBBS OCD

OCD Hobbs

12-877

JUL 05 2013

SECRETARY'S POTASH

Form 3160-3
(March 2012)~~OCD Artesia~~FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. 40005 LUSK 28 WEST FEDERAL COM #2H
2. Name of Operator OCCIDENTAL PERMIAN LIMITED PARTNERSHIP		9. API Well No. 30-025-41256
3a. Address P.O. BOX 4294 HOUSTON, TX 77210	3b. Phone No. (include area code) 157984 713-513-6640	10. Field and Pool, or Exploratory LUSK; BONE SPRING SOUTH 41460
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 865' FSL & 1645' FWL Unit A At proposed prod. zone 330' FNL & 1645' FWL Unit C		11. Sec., T. R. M. or Blk. and Survey or Area N; SEC 28, T19S, R32E
14. Distance in miles and direction from nearest town or post office* 34 MILES NORTHEAST OF CARLSBAD, NM		12. County or Parish LEA COUNTY
15. Distance from proposed* 865 location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		13. State NM
16. No. of acres in lease 1000	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* 450' to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 13113' MD / 9325' TVD	20. BLM/BIA Bond No. on file NM2797 / NMB000819
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3560.3' GL	22. Approximate date work will start* 08/01/2013	23. Estimated duration 45 DAYS

24. Attachments

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

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

25. Signature Jennifer Duarte	Name (Printed/Typed) JENNIFER DUARTE (jennifer_duarte@oxy.com)	Date 12/11/2012 Corrected 1-3-13
Title REGULATORY ANALYST		
Approved by (Signature) /s/ Jesse J. Juen	Name (Printed/Typed)	Date JUN 28 2013
Title STATE DIRECTOR	Office NM STATE OFFICE	

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

APPROVAL FOR TWO YEARS.

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

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

KZ
07/10/13Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL
JUL 15 2013 **dm**

**Occidental Permian Ltd.
Lusk 28 West Fed Com 2H
APD Data**

HOBBS OCD

JUL 05 2013

OPERATOR NAME / NUMBER: ~~OXY USA Inc~~ *Occidental Permian LTD*
LEASE NAME / NUMBER: Lusk 28 West Fed Com 2H
STATE: NM **COUNTY:** Lea
SURFACE LOCATION: 865' FSL & 1645' FWL, Sec 28, T19S, R32E
BOTTOM HOLE LOCATION: 330' FNL & 1645' FWL, Sec 28, T19S, R32E
C-102 PLAT APPROX GR ELEV: 3560.3'
EST KB ELEV: 3585.3' (25' KB)

RECEIVED

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

Geological Marker	Top TVD	Fluid Type
Rustler	855'	---
Salado (T. Salt)	1085'	---
Tansill (Base Salt)	2465'	---
T. Yates	2625'	---
T. Seven Rivers (Top of Capitan Reef)	3035'	---
T. Queen (Base of Capitan Reef)	3215'	---
Delaware	4705'	Oil
T. Bone Spring	7305'	Oil
T. BSPG 1st Sand	8495'	Oil
T. BSPG2 Limestone	8795'	Oil
T. BSPG 2nd Sand	9145'	Oil
Target 2nd Bone Spring	9325'	Oil

Presence of Fresh Water: Fresh Water may be present above the Rustler formation. Surface casing will cover them.

GREATEST PROJECTED TD 13113' MD / 9325' TVD **OBJECTIVE:** 2nd Bone Spring

3. CASING PROGRAM (ALL NEW CASING)

Surface Casing: 16" casing set at ±880' MD / 880' TVD in a 20" hole filled with 9.2 ppg mud

See COA

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' - 880' <i>945'</i>	880'	75	J55	BT&C	1020	2630	1178	15.12	14.93	5.29	5.16	7.6

Intermediate1 Casing: 11-3/4" casing set at ±2600' MD / 2600' TVD in a 14-3/4" hole filled with 10 ppg mud

See COA

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' - 2600' <i>2950'</i>	2600'	47	J-55	ST&C	1510	3070	477	11.00	10.84	2.06	1.88	2.34

Intermediate2 Casing: 9-5/8" casing set at ±4600' MD / 4600' TVD in a 10-5/8" hole filled with 8.6 ppg mud

See COA

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' - 4600' <i>4300'</i>	4600'	40	J-55	ULTRA-FJ	2570	3950	523	8.83	8.68	1.85	1.25	1.68

JUL 05 2013

Production Casing: 5-1/2" casing set at ±13113'MD / 9325'TVD in a 8-1/2" hole filled with 9.6 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	RECEIVED SF Coll	SF Burst	SF Ten
0'- 13113'	13113'	17	L-80	BT&C	6290	7740	397	4.89	4.76	1.35	1.28	1.68

Collapse and burst loads calculated using Stress Check with actual anticipated loads.

4. CEMENT PROGRAM:**Surface Interval**

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC: 0')							
Lead: 0' - 550' (165% Excess)	650	550	Premium Plus Cement, with 4% Bentonite, 1% Calcium Chloride, & 0.125 lb/sk Poly-E-Flake	9.14	13.5	1.73	1006 psi
Tail: 550' - 880' (165% Excess)	550	330	Premium Plus cement with 2% Calcium Chloride	6.39	14.8	1.35	1346 psi

Intermediate1 Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Intermediate (TOC: 0')							
Lead: 0' - 2050' (105 % Excess)	810	2050	Light Premium Plus Cement, with 5% Salt, 5 lb/sk Kol-Seal, & 0.125 lb/sk Poly-E-Flake	9.87	12.9	1.90	760 psi
Tail: 2050' - 2600' (105% Excess)	390	550	Premium Plus cement with 1% Calcium Chloride	6.36	14.8	1.34	2032 psi

Intermediate2 Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Intermediate (TOC: 0')							
Lead: 0' - 3641' (150% Excess)	400	3641	Light Premium Plus Cement, with 5% Salt, 5 lb/sk Kol-Seal, & 0.125 lb/sk Poly-E-Flake	9.88	12.9	1.91	660 psi
Tail: 3641' - 4600' (150% Excess)	210	959	Premium Plus cement with 3 lb/sk Kol-Seal & 0.5% WellLife 734	6.19	14.8	1.35	1586 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (TOC: 8000') 1st Stage							
8000'-13113' (85% Excess)	1390	5113	Super H Cement - 0.5% Halad®-344, 0.4% CFR-3, 3 lbm/sk Kol-Seal, 3 lbm/sk Salt, 0.125 lbm/sk Poly-E-Flake, 0.2% HR-601	8.44	13.2	1.67	1558 psi
DV Tool @ 8000							
Production (TOC: 4650') 2nd Stage							
Lead: 4650' - 7742' (125% Excess)	740	3092	Light Premium Plus, 5 lbm/sk Kol-Seal, 0.125 lbm/sk Poly-E-Flake, 5 lbm/sk Salt, 0.3% HR-601	11.78	12.4	2.16	709 psi

Tail: 7742' – 8000' (125% Excess)	100	258	Premium Plus cement with 0.15% HR-601	6.35	14.8	1.33	1303 psi
<u>Pack-Off Stage Tool @ 4650'</u>							

<u>Production (TOC: Surface) 3rd Stage</u>							
Lead: 0' – 4254' (10% Excess)	600	4254	Light Premium Plus with 3 lb/sk Salt	11.39	12.4	2.05	299 psi
Tail: 4254' – 4650' (10% Excess of Annular Volume)	100	396	Premium Plus cement with 1% Calcium Chloride	6.36	14.8	1.34	1745 psi

A. Description of Cement Additives:

Bentonite: Light Weight Additive
Calcium Chloride: Accelerator
CFR-3: Dispersant
Halad-344: Low Fluid Loss Control
HR-601: Retarder
Kol-Seal: Lost Circulation Additive
Poly-E-Flake: Lost Circulation Additive
WellLife 734: Cement Enhancer

HOBBS OCD

JUL 05 2013

RECEIVED

5. DIRECTIONAL PLAN:

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT:

Surface: 0 – 880' None.

Intermediate1: 0 – 2600' First intermediate hole will be drilled with a 2M Annular Diverter system. The Annular will be tested to 1500 psi (70% of annular WP). This exceeds Onshore Order #2 requirement III.A.
Intermediate2: 0 – 4600' Second intermediate hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 10M Choke Manifold.

Production: 0 – 13113' Production hole will be drilled with a 13-5/8" 10M three ram stack w/ 5M annular preventer, & 10M Choke Manifold. Oxy requires the use of a 5M BOP stack.

- All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Wellhead pressure rating will support this test and 13-3/8" casing will be protected from high pressure. Since the wellhead system is a multibowl design, this initial test will cover the requirements prior to drilling out the 9-5/8" casing shoe.
- Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 5000 psi WP rating. Oxy requests that the system be tested at 5,000 psi WP rating.
- Oxy requests a variance to use a 2M Diverter on the 16" surface casing
- Oxy requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose made by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose rated to 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. Please see attached certifications.
- See attached Diverter, BOP & Choke manifold diagrams.

- See COA

JUL 05 2013

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System RECEIVED
0 – 880' 945	8.4 – 9.2	32 – 36	NC	Fresh Water /Spud Mud
880' – 2600' 2950	9.8 – 10.0	28 – 36	NC	Brine Water
2600' – 4600' 4300	8.6 – 8.8	28- 32	NC	Fresh Water
4600' – 8600'	8.8 – 9.2	28- 32	<15	Cut Brine
8600' - TD	9.0 – 9.6	40 - 50	8 - 15	Salt Gel

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

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

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. **If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM**

9. LOGGING / CORING AND TESTING PROGRAM:*See COA*

- A. Mud Logger: From base of 9-5/8" Intermediate casing to TD.
- B. DST's: None.
- C. Open Hole Logs as follows: GR-NEU-DEN-RES from TD to Int Casing. GR-NEU to surface.

10. 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 bottomhole pressure is anticipated to be between 4350 psi and 4550 psi. **The highest anticipated pressure gradient is 0.48 psi/ft**
- C. No abnormal temperatures or pressures are anticipated. 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.

11. 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 38 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.

12. COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Brad Brown	Drilling Engineer	713-985-6950	713-985-6950
Sebastian Millan	Drilling Engineer Supervisor	713-350-4950	832-528-3268
Roger Allen	Drilling Superintendent	713- 215-7617	281-682-3919
Douglas Chester	Drilling Manager	713- 366-5194	713-918-9124

HOBBS OCD

JUL 05 2013

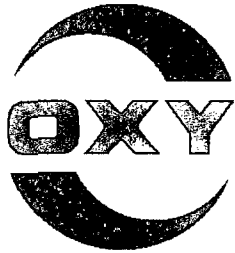
RECEIVED



Weatherford[®]

Drilling Services

Proposal



OCCIDENTAL PERMIAN LTD.

LUSK 28 WEST FED COM #2H

LEA CO, NM

WELL FILE: **PLAN 1**

AUGUST 15, 2012

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Lusk 28 West Fed Com #2H Lea Co, New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.60	0.00	0.00	0.00	0.00	0.00	0.00	
2	8618.81	0.00	359.60	8618.81	0.00	0.00	0.00	0.00	0.00	
3	9745.94	90.17	359.60	9335.00	718.31	-4.99	8.00	359.60	718.32	
4	13113.22	90.17	359.60	9325.00	4085.50	-28.39	0.00	0.00	4085.60	PBHL

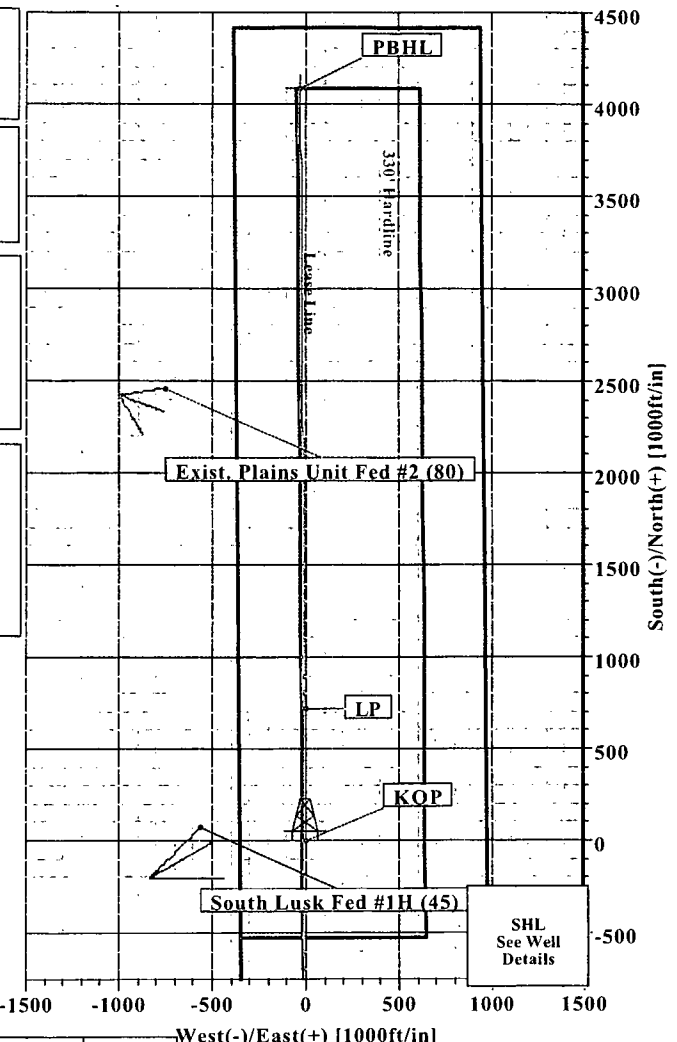
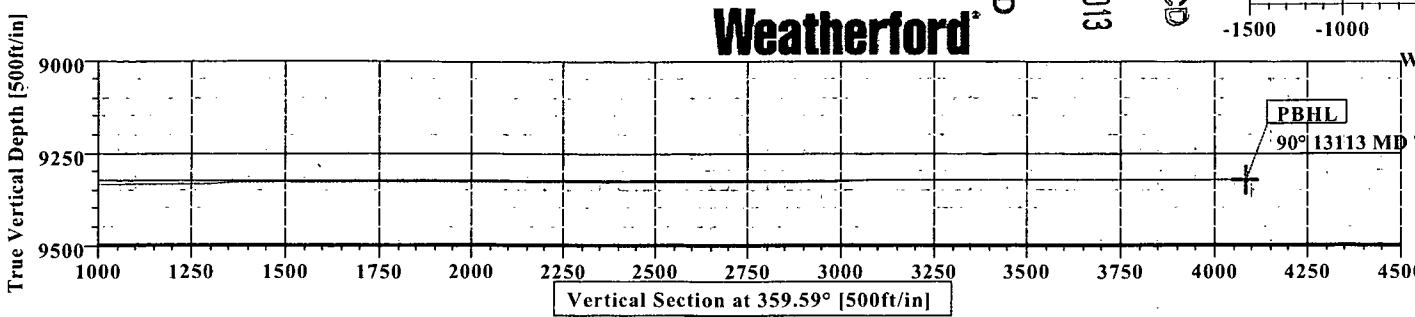
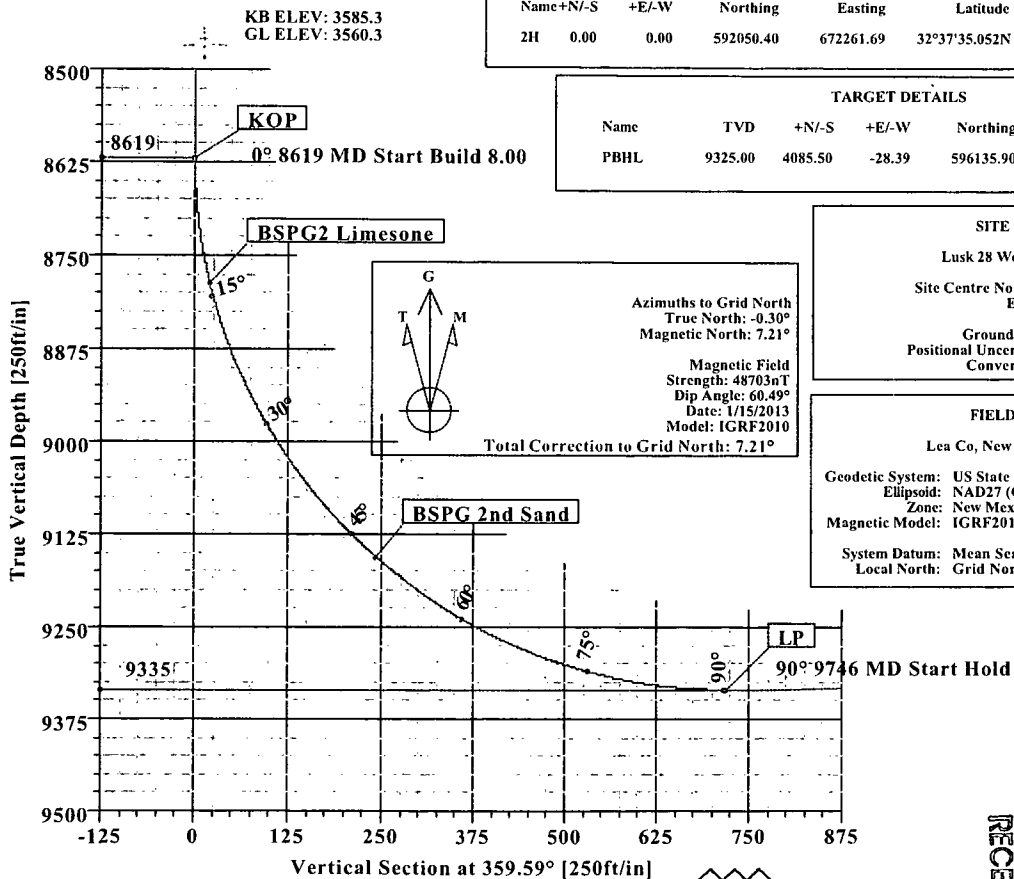
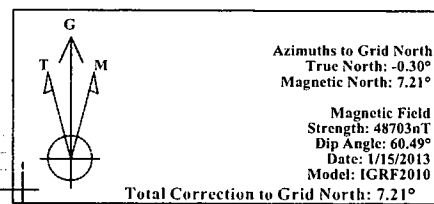
PBHL
4085.50 N
28.39 W

WELL DETAILS						
Name+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
2H	0.00	0.00	592050.40	672261.69	32°37'35.052N	103°46'25.707W
						N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9325.00	4085.50	-28.39	596135.90	672233.30	Point

SITE DETAILS
Lusk 28 West Fed Com 2H
Site Centre Northing: 592050.40
Easting: 672261.69
Ground Level: 3560.30
Positional Uncertainty: 0.00
Convergence: 0.30

FIELD DETAILS
Lea Co, New Mexico (Nad 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North



- LEGEND**
- Exist. Plains Unit Fed #2 (110)
 - Exist. Plains Unit Fed #2 (150 AZM)
 - Exist. Plains Unit Fed #2 (80)
 - South Lusk Fed #1H (45)
 - South Lusk Fed #1H (60)
 - South Lusk Fed #1H (90 AZM)
 - Plan #1



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd. Date: 8/15/2012 Time: 07:59:04 Page: 1
 Field: Lea Co, New Mexico (Nad 27) Co-ordinate(NE) Reference: Well: 2H, Grid North
 Site: Lusk 28 West Fed Com 2H Vertical (TVD) Reference: SITE 3585.3
 Well: 2H Section (VS) Reference: Well (0.00N,0.00E,359.59Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

HOEBS OCD

JUL 05 2013

Plan: Plan #1 Date Composed: 8/10/2012
 Principal: Yes Version: 1
 Tied-to: From Surface

Field: Lea Co, New Mexico (Nad 27)

RECEIVED

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

Site: Lusk 28 West Fed Com 2H

Site Position: Northing: 592050.40 ft Latitude: 32 37 35.052 N
 From: Map Easting: 672261.69 ft Longitude: 103 46 25.707 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3560.30 ft Grid Convergence: 0.30 deg

Well: 2H Slot Name:
 Well Position: +N-S 0.00 ft Northing: 592050.40 ft Latitude: 32 37 35.052 N
 +E-W 0.00 ft Easting: 672261.69 ft Longitude: 103 46 25.707 W
 Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
 Current Datum: SITE Height 3585.30 ft Tie-on Depth: 0.00 ft
 Magnetic Data: 1/15/2013 Above System Datum: Mean Sea Level
 Field Strength: 48703 nT Declination: 7.52 deg
 Vertical Section: Depth From (TVD) +N-S +E-W Mag Dip Angle: 60.49 deg
 ft ft ft Direction deg
 0.00 0.00 0.00 359.59

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	359.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8618.81	0.00	359.60	8618.81	0.00	0.00	0.00	0.00	0.00	0.00	
9745.94	90.17	359.60	9335.00	718.31	-4.99	8.00	8.00	0.00	359.60	
13113.22	90.17	359.60	9325.00	4085.50	-28.39	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8600.00	0.00	359.60	8600.00	0.00	0.00	0.00	0.00	592050.40	672261.69	
8618.81	0.00	359.60	8618.81	0.00	0.00	0.00	0.00	592050.40	672261.69	KOP
8650.00	2.50	359.60	8649.99	0.68	0.00	0.68	8.00	592051.08	672261.69	
8700.00	6.50	359.60	8699.83	4.60	-0.03	4.60	8.00	592055.00	672261.66	
8750.00	10.50	359.60	8749.27	11.98	-0.08	11.98	8.00	592062.38	672261.61	
8787.56	13.50	359.60	8786.00	19.79	-0.14	19.79	8.00	592070.19	672261.55	BSPG2 Limesone
8800.00	14.50	359.60	8798.07	22.80	-0.16	22.80	8.00	592073.20	672261.53	
8850.00	18.50	359.60	8846.01	36.99	-0.26	36.99	8.00	592087.39	672261.43	
8900.00	22.50	359.60	8892.83	54.49	-0.38	54.49	8.00	592104.89	672261.31	
8950.00	26.50	359.60	8938.32	75.22	-0.52	75.22	8.00	592125.62	672261.17	
9000.00	30.50	359.60	8982.26	99.07	-0.69	99.07	8.00	592149.47	672261.00	
9050.00	34.50	359.60	9024.42	125.92	-0.88	125.93	8.00	592176.32	672260.81	
9100.00	38.50	359.60	9064.61	155.66	-1.08	155.66	8.00	592206.06	672260.61	
9150.00	42.50	359.60	9102.62	188.12	-1.31	188.12	8.00	592238.52	672260.38	
9200.00	46.50	359.60	9138.28	223.15	-1.55	223.16	8.00	592273.55	672260.14	
9226.25	48.60	359.60	9156.00	242.52	-1.69	242.53	8.00	592292.92	672260.00	BSPG 2nd Sand
9250.00	50.50	359.60	9171.41	260.59	-1.81	260.59	8.00	592310.99	672259.88	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Lusk 28 West Fed Com 2H
Well: 2H
Wellpath: 1

JUL 05 2013

RECEIVED

Date: 8/15/2012 Time: 07:59:04 Page: 2
Co-ordinate(NE) Reference: Well: 2H, Grid North
Vertical (TVD) Reference: SITE 3585.3
Section (VS) Reference: Well (0.00N,0.00E,359.59Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9300.00	54.50	359.60	9201.84	300.24	-2.09	300.25	8.00	592350.64	672259.60	
9350.00	58.50	359.60	9229.44	341.93	-2.38	341.94	8.00	592392.33	672259.31	
9400.00	62.50	359.60	9254.06	385.43	-2.68	385.44	8.00	592435.83	672259.01	
9450.00	66.50	359.60	9275.58	430.55	-2.99	430.56	8.00	592480.95	672258.70	
9500.00	70.50	359.60	9293.91	477.06	-3.32	477.07	8.00	592527.46	672258.37	
9550.00	74.50	359.60	9308.94	524.73	-3.65	524.75	8.00	592575.13	672258.04	
9600.00	78.50	359.60	9320.62	573.34	-3.98	573.35	8.00	592623.74	672257.71	
9650.00	82.50	359.60	9328.87	622.64	-4.33	622.66	8.00	592673.04	672257.36	
9700.00	86.50	359.60	9333.67	672.40	-4.67	672.42	8.00	592722.80	672257.02	
9745.94	90.17	359.60	9335.00	718.31	-4.99	718.32	8.00	592768.71	672256.70	LP
9800.00	90.17	359.60	9334.84	772.37	-5.37	772.39	0.00	592822.77	672256.32	
9900.00	90.17	359.60	9334.54	872.37	-6.06	872.39	0.00	592922.77	672255.63	
10000.00	90.17	359.60	9334.25	972.36	-6.76	972.39	0.00	593022.76	672254.93	
10100.00	90.17	359.60	9333.95	1072.36	-7.45	1072.39	0.00	593122.76	672254.24	
10200.00	90.17	359.60	9333.65	1172.36	-8.15	1172.39	0.00	593222.76	672253.54	
10300.00	90.17	359.60	9333.36	1272.36	-8.84	1272.39	0.00	593322.76	672252.85	
10400.00	90.17	359.60	9333.06	1372.35	-9.54	1372.39	0.00	593422.75	672252.15	
10500.00	90.17	359.60	9332.76	1472.35	-10.23	1472.39	0.00	593522.75	672251.46	
10600.00	90.17	359.60	9332.47	1572.35	-10.93	1572.38	0.00	593622.75	672250.76	
10700.00	90.17	359.60	9332.17	1672.34	-11.62	1672.38	0.00	593722.74	672250.07	
10800.00	90.17	359.60	9331.87	1772.34	-12.32	1772.38	0.00	593822.74	672249.37	
10900.00	90.17	359.60	9331.57	1872.34	-13.01	1872.38	0.00	593922.74	672248.68	
11000.00	90.17	359.60	9331.28	1972.34	-13.71	1972.38	0.00	594022.74	672247.98	
11100.00	90.17	359.60	9330.98	2072.33	-14.40	2072.38	0.00	594122.73	672247.29	
11200.00	90.17	359.60	9330.68	2172.33	-15.10	2172.38	0.00	594222.73	672246.59	
11300.00	90.17	359.60	9330.39	2272.33	-15.79	2272.38	0.00	594322.73	672245.90	
11400.00	90.17	359.60	9330.09	2372.32	-16.49	2372.38	0.00	594422.72	672245.20	
11500.00	90.17	359.60	9329.79	2472.32	-17.18	2472.38	0.00	594522.72	672244.51	
11600.00	90.17	359.60	9329.50	2572.32	-17.88	2572.38	0.00	594622.72	672243.81	
11700.00	90.17	359.60	9329.20	2672.32	-18.57	2672.38	0.00	594722.72	672243.12	
11800.00	90.17	359.60	9328.90	2772.31	-19.27	2772.38	0.00	594822.71	672242.42	
11900.00	90.17	359.60	9328.60	2872.31	-19.96	2872.38	0.00	594922.71	672241.73	
12000.00	90.17	359.60	9328.31	2972.31	-20.66	2972.38	0.00	595022.71	672241.03	
12100.00	90.17	359.60	9328.01	3072.30	-21.35	3072.38	0.00	595122.70	672240.34	
12200.00	90.17	359.60	9327.71	3172.30	-22.05	3172.38	0.00	595222.70	672239.64	
12300.00	90.17	359.60	9327.42	3272.30	-22.74	3272.38	0.00	595322.70	672238.95	
12400.00	90.17	359.60	9327.12	3372.30	-23.44	3372.38	0.00	595422.70	672238.25	
12500.00	90.17	359.60	9326.82	3472.29	-24.13	3472.38	0.00	595522.69	672237.56	
12600.00	90.17	359.60	9326.52	3572.29	-24.83	3572.38	0.00	595622.69	672236.86	
12700.00	90.17	359.60	9326.23	3672.29	-25.52	3672.38	0.00	595722.69	672236.17	
12800.00	90.17	359.60	9325.93	3772.28	-26.22	3772.38	0.00	595822.68	672235.47	
12900.00	90.17	359.60	9325.63	3872.28	-26.91	3872.37	0.00	595922.68	672234.78	
13000.00	90.17	359.60	9325.34	3972.28	-27.61	3972.37	0.00	596022.68	672234.08	
13100.00	90.17	359.60	9325.04	4072.28	-28.30	4072.37	0.00	596122.68	672233.39	
13113.22	90.17	359.60	9325.00	4085.50	-28.39	4085.60	0.00	596135.90	672233.30	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
PBHL			9325.00	4085.50	-28.39	596135.90	672233.30	32 38 15.480 N	103 46 25.787 W



Weatherford International Ltd.
WFT Plan Report - X & Y's



Weatherford

Company: Occidental Permian Ltd.
Field: Lea Co, New Mexico (Nad 27)
Site: Lusk 28 West Fed Com 2H
Well: 2H
Wellpath: 1

Date: 8/15/2012 **Time:** 07:59:04 **Page:** 3
Co-ordinate(NE) Reference: Well: 2H, Grid North
Vertical (TVD) Reference: SITE 3585.3
Section (VS) Reference: Well (0.00N,0.00E,359.59Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
4465.30	4465.30	0.000	0.000	Csg
6185.30	6185.30	0.000	0.000	Csg
8185.30	8185.30	0.000	0.000	Csg

Annotation

MD ft	TVD ft	
8618.81	8618.81	KOP
9745.94	9335.00	LP
13113.22	9325.00	PBHL

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
8787.56	8786.00	BSPG2 Limesone		0.00	0.00
9226.25	9156.00	BSPG 2nd Sand		0.00	0.00

HOBBS OCD

JUL 05 2013

RECEIVED

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

HOBBS OCD

JUL 05 2013

~~RECEIVED~~

Report Date: August 14, 2012
Job Number: _____
Customer: Occidental Permian Ltd.
Well Name: Lusk 28 West Fed Com #2H
API Number: _____
Rig Name: _____
Location: Lea Co, New Mexico (Nad 27)
Block: _____
Engineer: Patrick Rudolph

US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 592050.400 USFT	Latitude 32.6264033 DEG
East/West 672261.690 USFT	Longitude -103.7738074 DEG
Grid Convergence: .30°	
Total Correction: +7.22°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.62640° N	32° 37 min 35.052 sec
Longitude =	103.77381° W	103° 46 min 25.707 sec

Magnetic Declination =	7.52°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6694
Local Field Strength =	48699 nT	Magnetic Vector X =	23786 nT
Magnetic Dip =	60.49°	Magnetic Vector Y =	3138 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42380 nT
Spud Date =	Jan 15, 2013	Magnetic Vector H =	23992 nT

Signed: _____

Date: _____

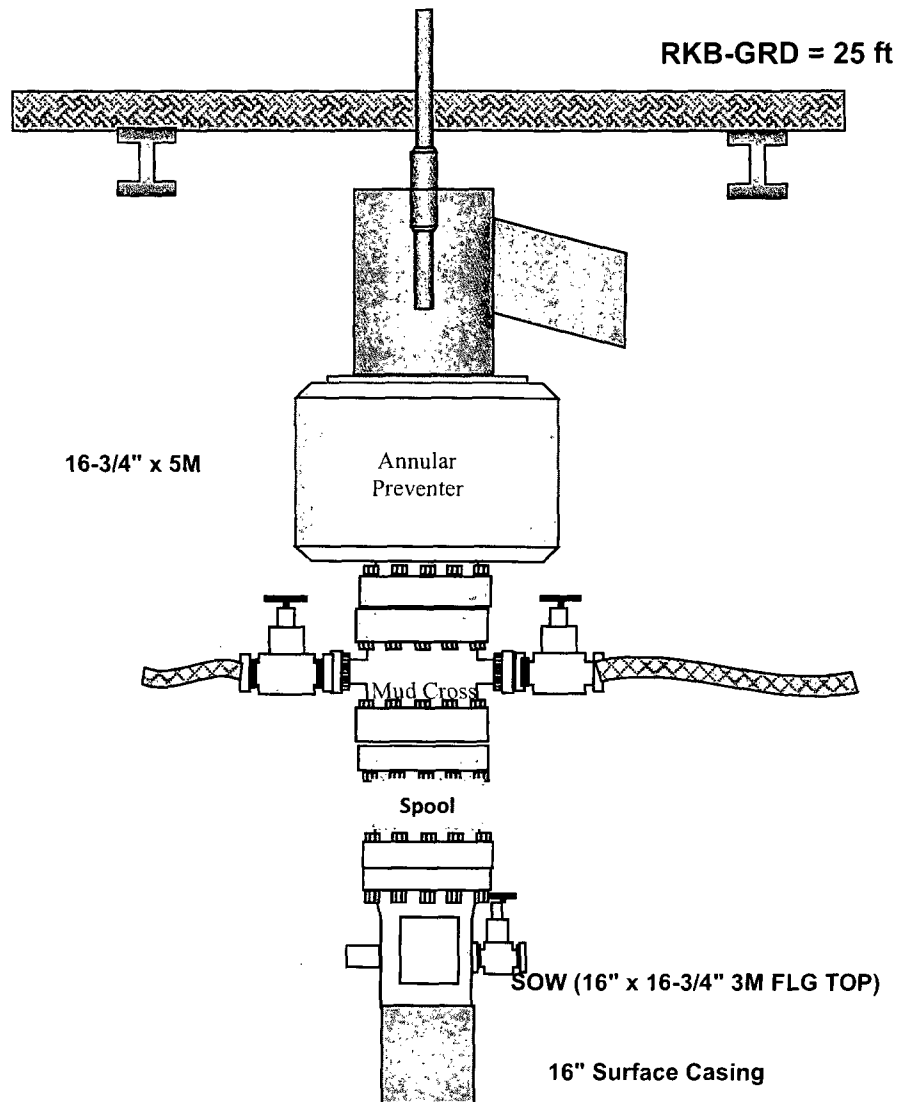
HOBBS OCD

JUL 05 2013

RECEIVED

BOP STACK for 16" Surface Casing

16-3/4" 5M BOP Stack



BOP Diagram

HOESS OCD

JUL 05 2013

RECEIVED

ANNULAR, HYDRA GR
13 5/8"x5M
(10M FLANGE)

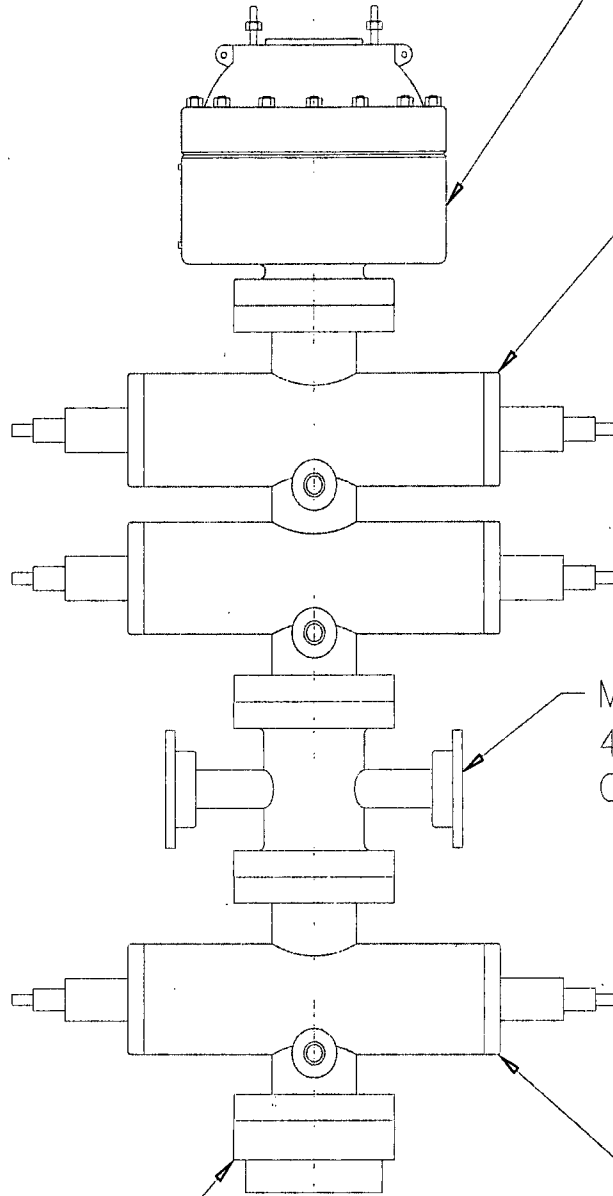
CAMERON
'U' TYPE
DOUBLE

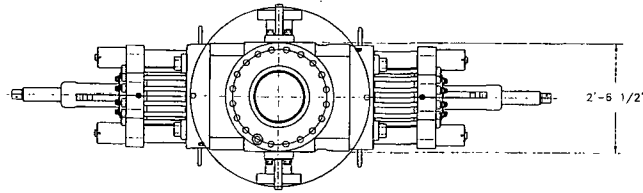
MUD CROSS WITH
4 1/16"x10M
OUTLET FLANGES

CAMERON
'U' TYPE
SINGLE

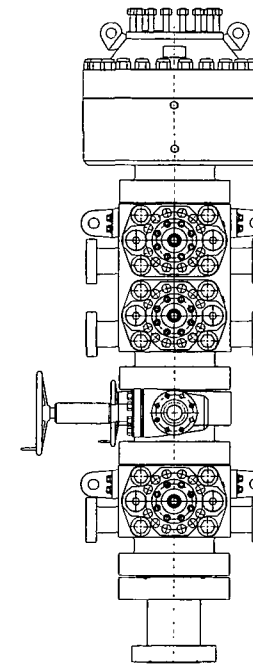
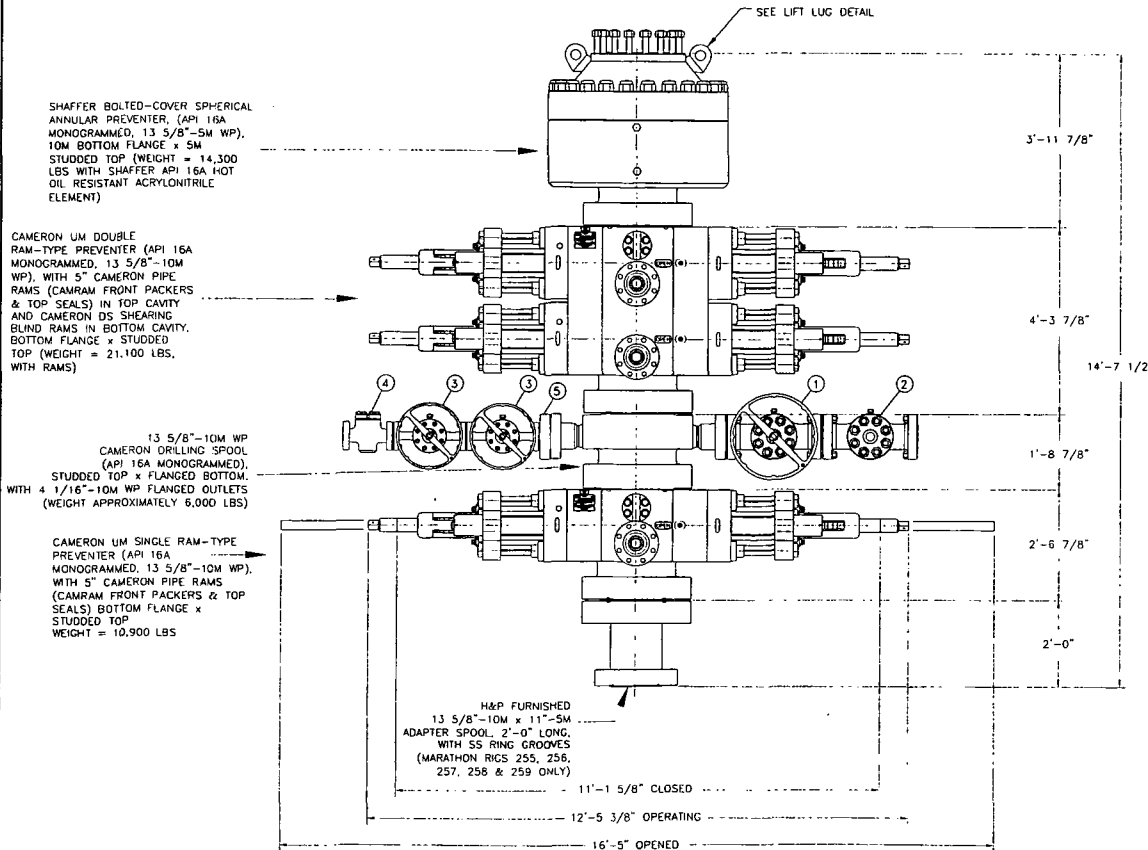
DSA, 11"x10M TO
13 5/8"x10M

BOP STACK





- 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 VALVE
 - ④ - 2 1/16"-10M FLANGED END CHECK VALVE
 - ⑤ - DOUBLE STUDDED ADAPTER



CAMERON LIFT EYES, 2 PER PREVENTER, 50 SHORT TON RATED CAPACITY EACH.

ISSUED FOR FABRICATION
December-18-2007
DRAFTSMAN
ENGINEER

API 6A MONOGRAMMED CAMERON CHOKES AND KILL WING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY
WEIGHTS DO NOT INCLUDE HOSES, ADAPTER SPOOLS OR QUICK CONNECT FITTINGS

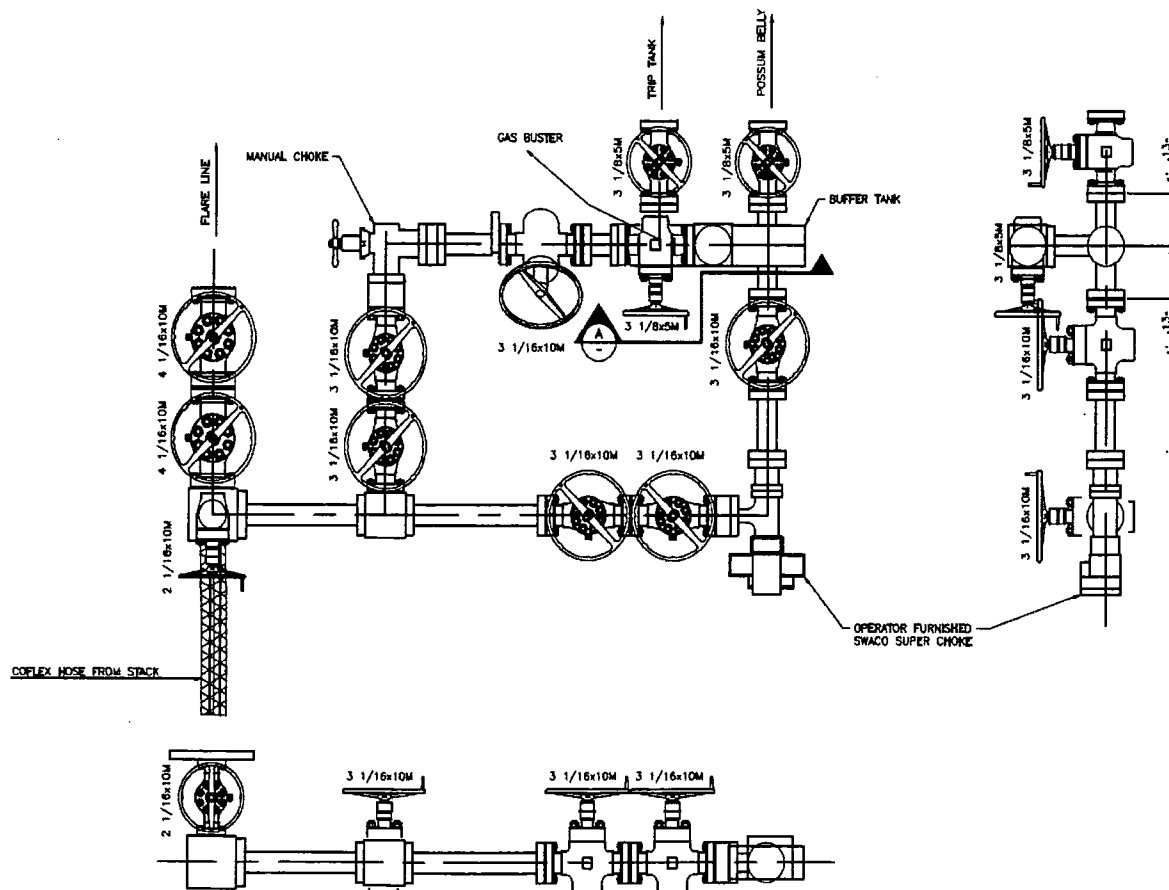
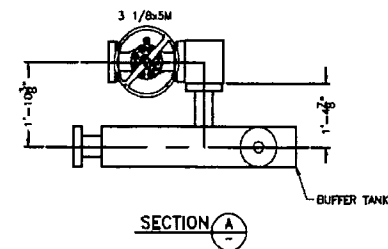
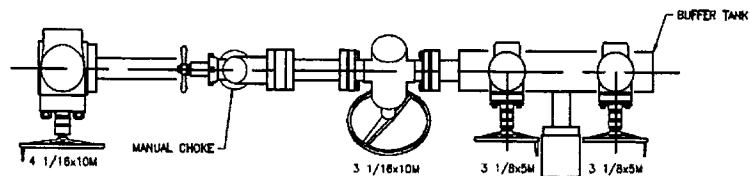
HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

ENGINEERING APPROVAL	DATE	TITLE
JAV	12/18/07	13 5/8"-10M BOP 3 RAM STACK FLEXRIG3
JBG	4-10-07	ORIENTATION RIGGED DOUBLE STUDDED ADAPTER VALVES 1, 2, 3, AND 4 CHECK VALVE ADDED
JBG	4-04-07	6" ADDED TO SPACER ADAPTER SPOOL
WWL	02-07-07	ADDED ADAPTER SPOOL
WWL	06-13-02	CORRECTED BOP STACK
REV	DATE	DESCRIPTION
BY		

PROJECT: FLEXRIG3
DRAWN: MTS
DATE: 6-5-02
DWG. NO.: 210-P1-07
SCALE: 3/4"=1'
SHEET: 1 OF 1

PROPRIETARY

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER, WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.



HOES OCD
JUL 05 2013
RECEIVED

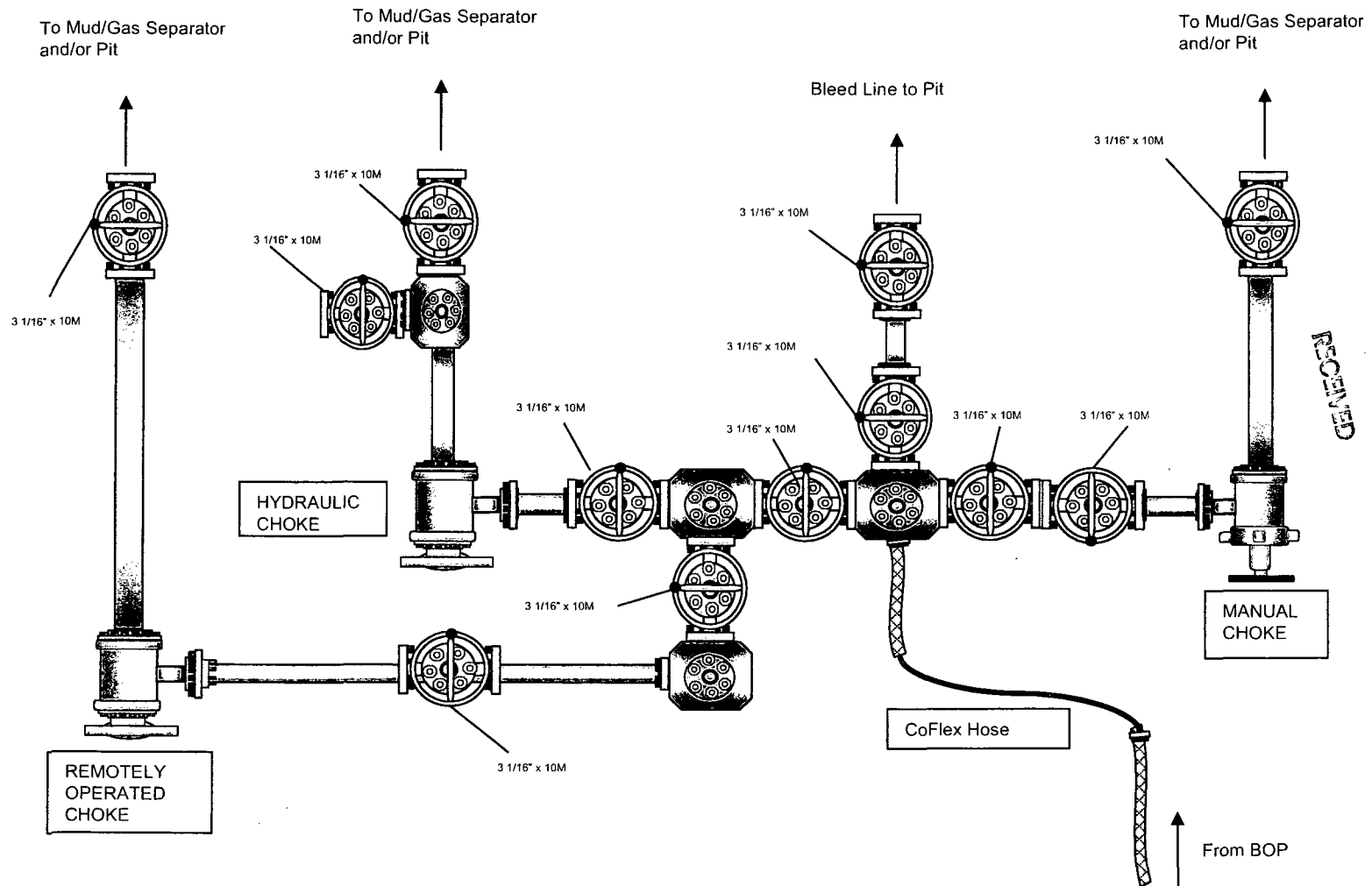
ISSUED FOR FABRICATION
MARCH 8, 2006
DRAFTSMAN
ENGINEER

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

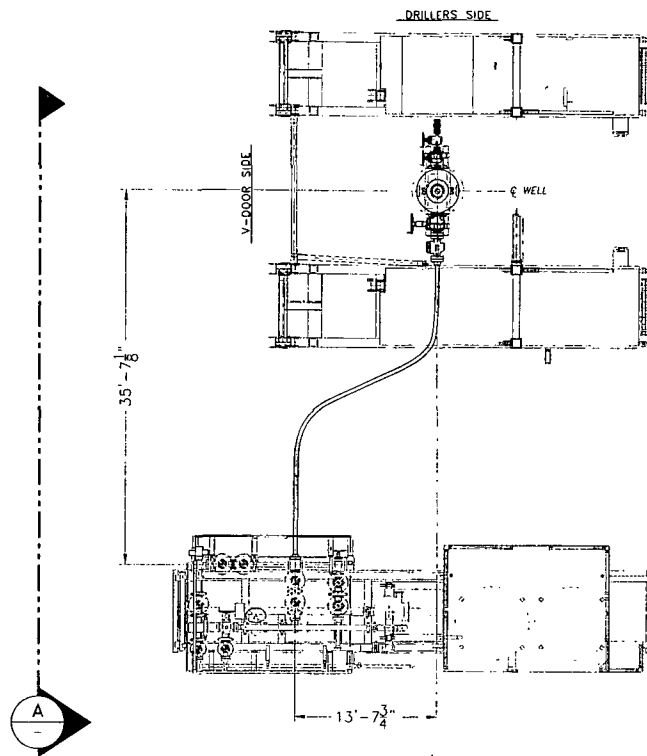
HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

ENGINEERING APPROVAL		DATE	TITLE
			CHOKE MANIFOLD
			CUSTOMER: H&P
			PROJECT: FLEXIG3
			DRAWN: MTS
			DATE: 2-28-02
			DWG. NO.:
			SCALE: 3/4"=1'
			SHEET: 1 OF 1
			216-P1-05
			REV: A

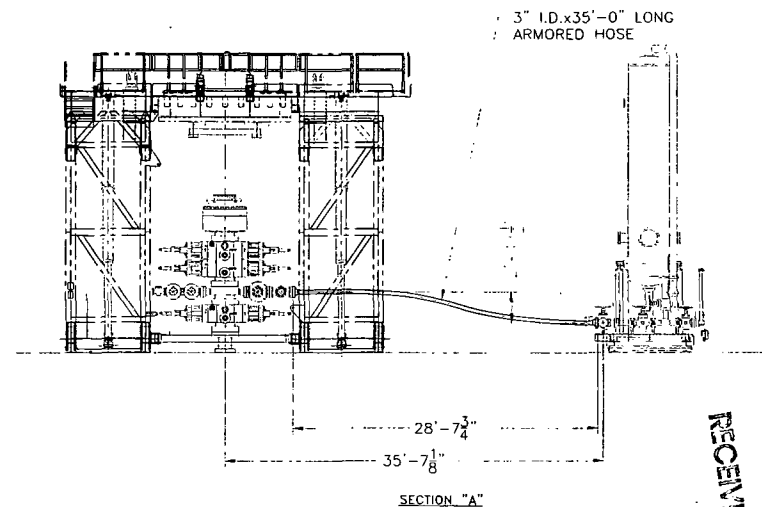
10M CHOKE MANIFOLD CONFIGURATION



HOESS OCD
JUL 05 2013
RECEIVED



PLAN VIEW



SECTION "A"

RECEIVED

JUL 05 2013

HOES CO

ISSUED FOR FABRICATION
December-19-2007
DRAFTSMAN _____
ENGINEER _____

PROPRIETARY

THIS DRAWING AND THE IDEAS AND INFORMATION INCLUDED IN THIS DRAWING ARE PROPRIETARY AND ARE NOT TO BE REPRODUCED, DISTRIBUTED OR DISCLOSED IN ANY MANNER, WITHOUT THE PRIOR, WRITTEN CONSENT OF A DULY AUTHORIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

ENGINEERING APPROVAL DATE

TITLE

CHOKE LINE SYSTEM
FLEXRIG3

CUSTOMER

PROJECT

DRAWN: JBG

DATE: 4-10-07

DWG. NO.:

REV:

SCALE: 3/16"=1'

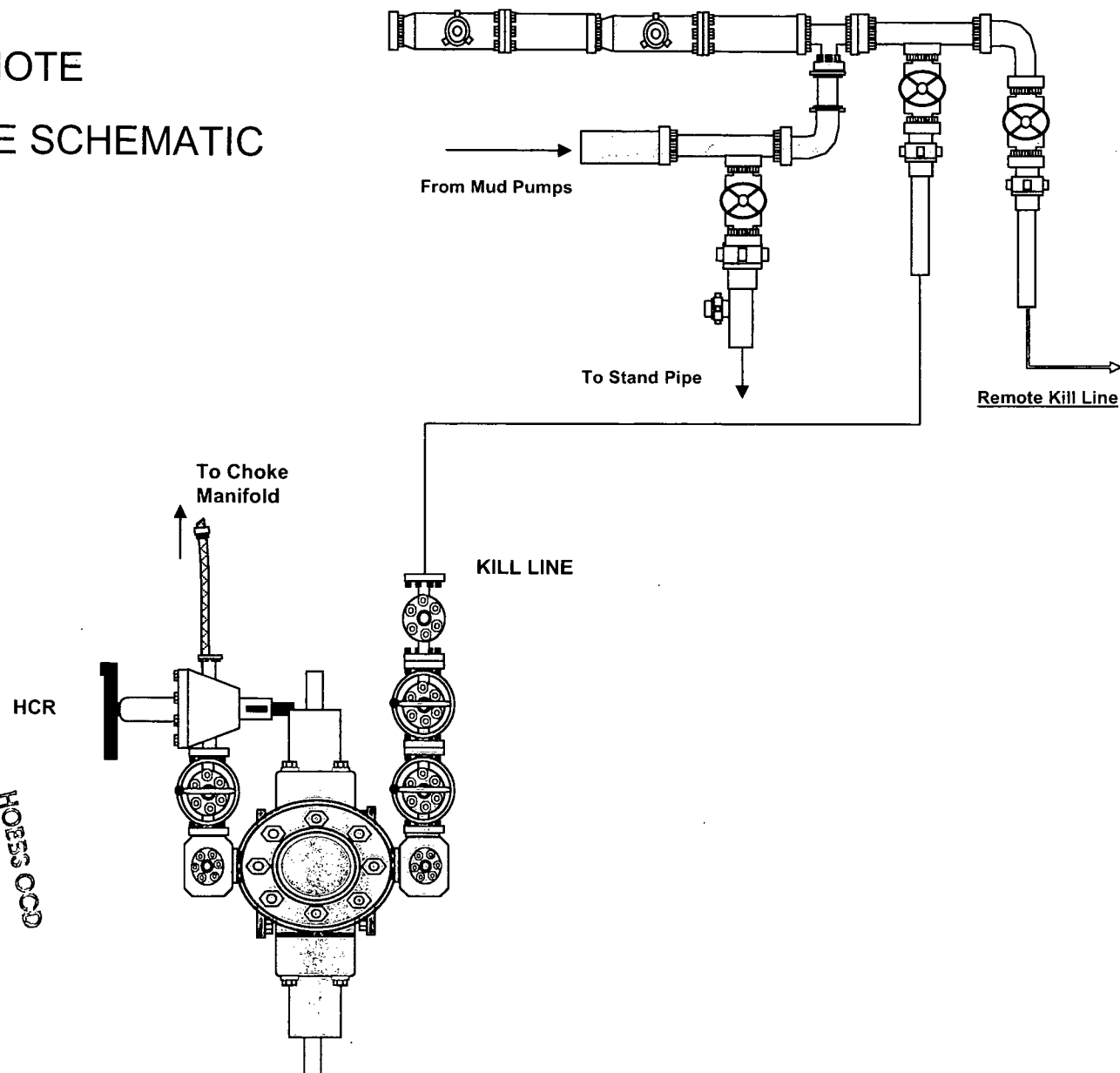
SHEET: 2 OF 11

210-P1-07

A

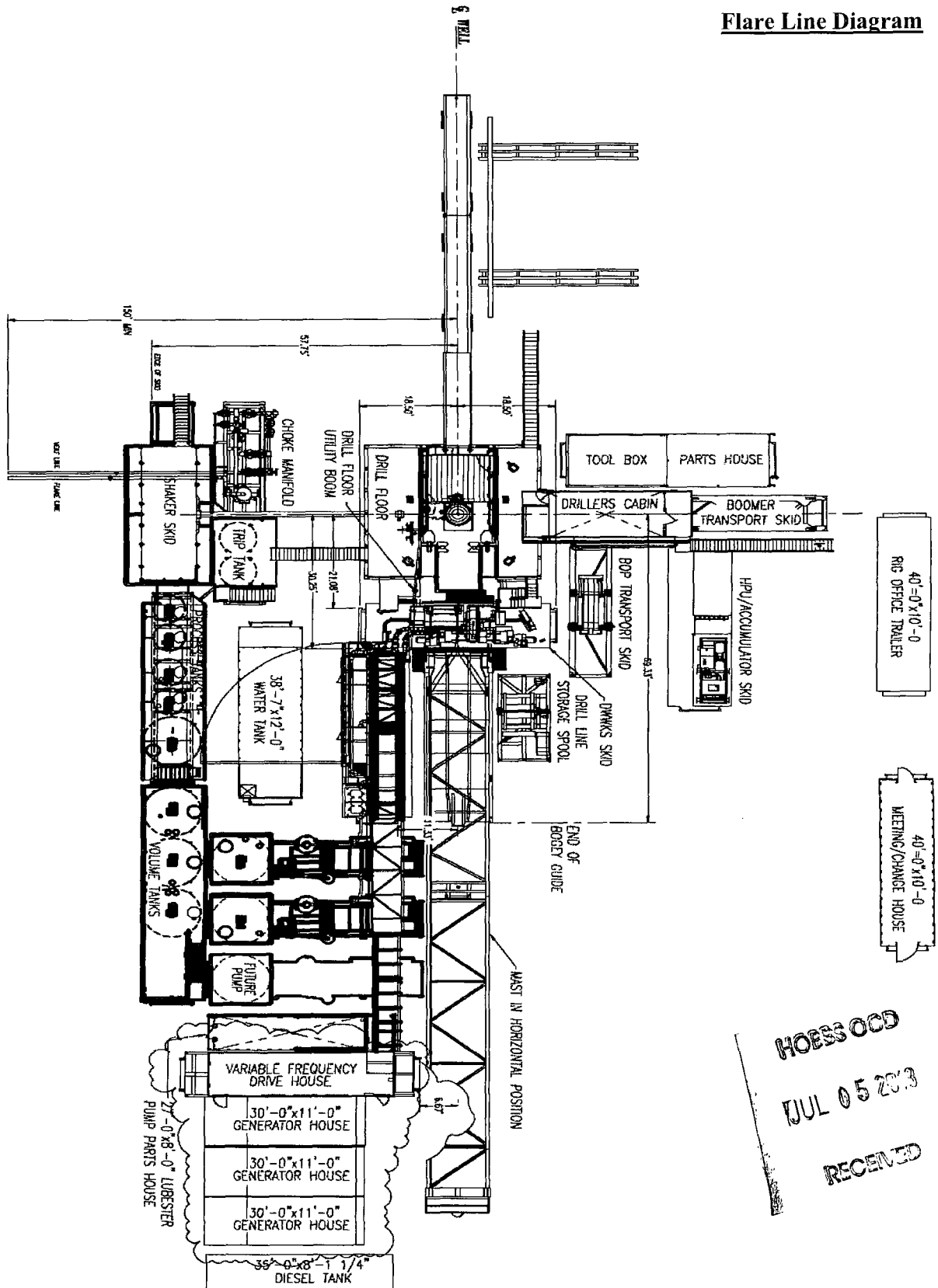
REV	DATE	DESCRIPTION	BY
▲			
▲			
▲			
▲	12/18/07	REMOVED SHEET TOTAL CALLOUT	JAY

10M REMOTE KILL LINE SCHEMATIC



HOESS OCD
JUL 05 2013
RECEIVED

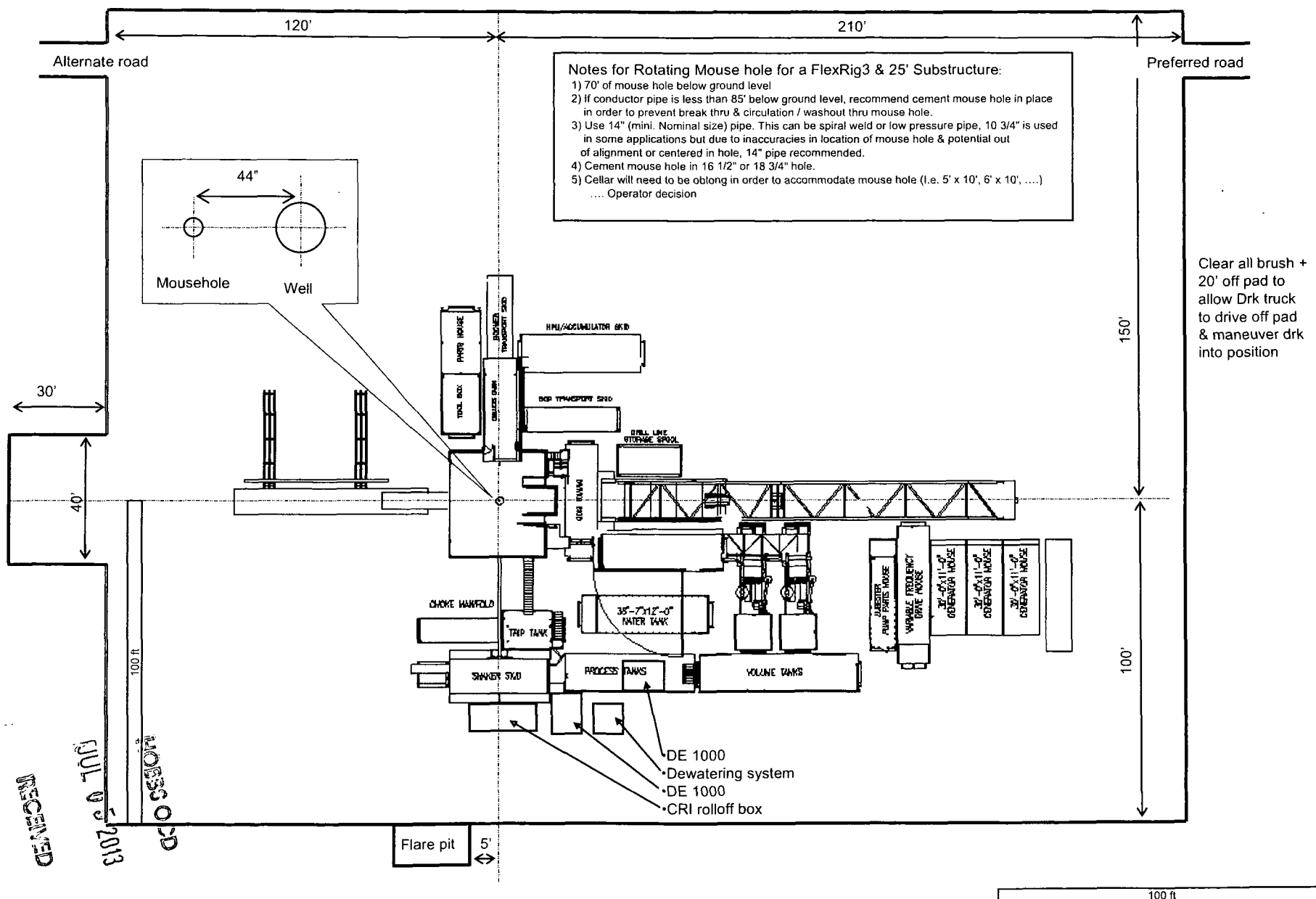
Flare Line Diagram



HOESS OGD
JUL 05 2013
RECEIVED

OXY FLEX III PAD (SCOMI Closed Loop System)

Level Area-No Caliche-For Offices and Living Quarters



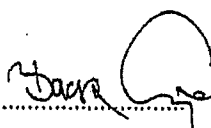
CERTIFICATE OF CONFORMITY

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

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Signed : 

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

Date: 04. April. 2008

Position: Q.C. Manager

HOESS OCD
JUL 05 2013
RECEIVED

Coflex Hose Certification

Page: 1/1

HOBBS OCD

JUL 05 2013

RECEIVED

21	20	19	18	17	16	15
10	20	30	40	50	60	70
80	90	100	110	120	130	140
150	160	170	180	190	200	210
220	230	240	250	260	270	280
290	300	310	320	330	340	350
360	370	380	390	400	410	420
430	440	450	460	470	480	490
500	510	520	530	540	550	560
570	580	590	600	610	620	630
640	650	660	670	680	690	700
710	720	730	740	750	760	770
780	790	800	810	820	830	840
850	860	870	880	890	900	910
920	930	940	950	960	970	980
990	1000	1010	1020	1030	1040	1050
1060	1070	1080	1090	1100	1110	1120
1130	1140	1150	1160	1170	1180	1190
1200	1210	1220	1230	1240	1250	1260
1270	1280	1290	1300	1310	1320	1330
1340	1350	1360	1370	1380	1390	1400
1410	1420	1430	1440	1450	1460	1470
1480	1490	1500	1510	1520	1530	1540
1550	1560	1570	1580	1590	1600	1610
1620	1630	1640	1650	1660	1670	1680
1690	1700	1710	1720	1730	1740	1750
1760	1770	1780	1790	1800	1810	1820
1830	1840	1850	1860	1870	1880	1890
1900	1910	1920	1930	1940	1950	1960
1970	1980	1990	2000	2010	2020	2030
2040	2050	2060	2070	2080	2090	2100
2110	2120	2130	2140	2150	2160	2170
2180	2190	2200	2210	2220	2230	2240
2250	2260	2270	2280	2290	2300	2310
2320	2330	2340	2350	2360	2370	2380
2390	2400	2410	2420	2430	2440	2450
2460	2470	2480	2490	2500	2510	2520
2530	2540	2550	2560	2570	2580	2590
2600	2610	2620	2630	2640	2650	2660
2670	2680	2690	2700	2710	2720	2730
2740	2750	2760	2770	2780	2790	2800
2810	2820	2830	2840	2850	2860	2870
2880	2890	2900	2910	2920	2930	2940
2950	2960	2970	2980	2990	3000	3010
3020	3030	3040	3050	3060	3070	3080
3090	3100	3110	3120	3130	3140	3150
3160	3170	3180	3190	3200	3210	3220
3230	3240	3250	3260	3270	3280	3290
3300	3310	3320	3330	3340	3350	3360
3370	3380	3390	3400	3410	3420	3430
3440	3450	3460	3470	3480	3490	3500
3510	3520	3530	3540	3550	3560	3570
3580	3590	3600	3610	3620	3630	3640
3650	3660	3670	3680	3690	3700	3710
3720	3730	3740	3750	3760	3770	3780
3790	3800	3810	3820	3830	3840	3850
3860	3870	3880	3890	3900	3910	3920
3930	3940	3950	3960	3970	3980	3990
4000	4010	4020	4030	4040	4050	4060
4070	4080	4090	4100	4110	4120	4130
4140	4150	4160	4170	4180	4190	4200
4210	4220	4230	4240	4250	4260	4270
4280	4290	4300	4310	4320	4330	4340
4350	4360	4370	4380	4390	4400	4410
4420	4430	4440	4450	4460	4470	4480
4490	4500	4510	4520	4530	4540	4550
4560	4570	4580	4590	4600	4610	4620
4630	4640	4650	4660	4670	4680	4690
4700	4710	4720	4730	4740	4750	4760
4770	4780	4790	4800	4810	4820	4830
4840	4850	4860	4870	4880	4890	4900
4910	4920	4930	4940	4950	4960	4970
4980	4990	5000	5010	5020	5030	5040
5050	5060	5070	5080	5090	5100	5110
5120	5130	5140	5150	5160	5170	5180
5190	5200	5210	5220	5230	5240	5250
5260	5270	5280	5290	5300	5310	5320
5330	5340	5350	5360	5370	5380	5390
5400	5410	5420	5430	5440	5450	5460
5470	5480	5490	5500	5510	5520	5530
5540	5550	5560	5570	5580	5590	5600
5610	5620	5630	5640	5650	5660	5670
5680	5690	5700	5710	5720	5730	5740
5750	5760	5770	5780	5790	5800	5810
5820	5830	5840	5850	5860	5870	5880
5890	5900	5910	5920	5930	5940	5950
5960	5970	5980	5990	6000	6010	6020
6030	6040	6050	6060	6070	6080	6090
6100	6110	6120	6130	6140	6150	6160
6170	6180	6190	6200	6210	6220	6230
6240	6250	6260	6270	6280	6290	6300
6310	6320	6330	6340	6350	6360	6370
6380	6390	6400	6410	6420	6430	6440
6450	6460	6470	6480	6490	6500	6510
6520	6530	6540	6550	6560	6570	6580
6590	6600	6610	6620	6630	6640	6650
6660	6670	6680	6690	6700	6710	6720
6730	6740	6750	6760	6770	6780	6790
6800	6810	6820	6830	6840	6850	6860
6870	6880	6890	6900	6910	6920	6930
6940	6950	6960	6970	6980	6990	7000
7010	7020	7030	7040	7050	7060	7070
7080	7090	7100	7110	7120	7130	7140
7150	7160	7170	7180	7190	7200	7210
7220	7230	7240	7250	7260	7270	7280
7290	7300	7310	7320	7330	7340	7350
7360	7370	7380	7390	7400	7410	7420
7430	7440	7450	7460	7470	7480	7490
7500	7510	7520	7530	7540	7550	7560
7570	7580	7590	7600	7610	7620	7630
7640	7650	7660	7670	7680	7690	7700
7710	7720	7730	7740	7750	7760	7770
7780	7790	7800	7810	7820	7830	7840
7850	7860	7870	7880	7890	7900	7910
7920	7930	7940	7950	7960	7970	7980
7990	8000	8010	8020	8030	8040	8050
8060	8070	8080	8090	8100	8110	8120
8130	8140	8150	8160	8170	8180	8190
8200	8210	8220	8230	8240	8250	8260
8270	8280	8290	8300	8310	8320	8330
8340	8350	8360	8370	8380	8390	8400
8410	8420	8430	8440	8450	8460	8470
8480	8490	8500	8510	8520	8530	8540
8550	8560	8570	8580	8590	8600	8610
8620	8630	8640	8650	8660	8670	8680
8690	8700	8710	8720	8730	8740	8750
8760	8770	8780	8790	8800	8810	8820
8830	8840	8850	8860	8870	8880	8890
8900	8910	8920	8930	8940	8950	8960
8970	8980	8990	9000	9010	9020	9030
9040	9050	9060	9070	9080	9090	9100
9110	9120	9130	9140	9150	9160	9170
9180	9190	9200	9210	9220	9230	9240
9250	9260	9270	9280	9290	9300	9310
9320	9330	9340	9350	9360	9370	9380
9390	9400	9410	9420	9430	9440	9450
9460	9470	9480	9490	9500	9510	9520
9530	9540	9550	9560	9570	9580	9590
9600	9610	9620	9630	9640	9650	9660
9670	9680	9690	9700	9710	9720	9730
9740	9750	9760	9770	9780	9790	9800
9810	9820	9830	9840	9850	9860	9870
9880	9890	9900	9910	9920	9930	9940
9950	9960	9970	9980	9990	10000	10010
10020	10030	10040	10050	10060	10070	10080
10090	10100	10110	10120	10130	10140	10150
10160	10170	10180	10190	10200	10210	10220
10230	10240	10250	10260	10270	10280	10290
10300	10310	10320	10330	10340	10350	10360
10370	10380	10390	10400	10410	10420	10430
10440	10450	10460	10470	10480	10490	10500
10510	10520	10530	10540	10550	10560	10570
10580	10590	10600	10610	10620	10630	10640
10650	10660	10670	10680	10690	10700	10710
10720	10730	10740	10750	10760	10770	10780
10790	10800	10810	10820	10830	10840	10850
10860	10870	10880	10890	10900	10910	10920
10930	10940	10950	10960	10970	10980	10990
11000	11010	11020	11030	11040	11050	11060
11070	11080	11090	11100	11110	11120	11130
11140	11150	11160	11170	11180	11190	11200
11210	11220	11230	11240	11250	11260	11270
11280	11290	11300	11310	11320	11330	11340
11350	11360	11370	11380	11390	11400	11410
11420	11430	11440	11450	11460	11470	11480
11490	11500	11510	11520	11530	11540	11550
11560	11570	11580	11590	11600	11610	11620
11630	11640	11650	11660	11670	11680	11690
11700	11710	11720	11730	11740	11750	11760
11770	11780	11790	11800	11810	11820	11830
11840	11850	11860	11870	11880	11890	11900
11910	11920	11930	11940	11950	11960	11970
11980	11990	12000	12010	12020	12030	12040
12050	12060	12070	12080	12090	12100	12110
12120	12130	12140	12150	12160	12170	12180
12190	12200	12210	12220	12230	12240	12250
12260	12270	12280	12290	12300	12310	12320
12330	12340	12350	12360	12370	12380	12390
12400	12410	12420	12430	12440	12450	12460
12470	12480	12490	12500	1		



PHOENIX Beattie

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

[illegible]

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

05/23/09

HOBBS OCD
JUL 05 2013
RECEIVED

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

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

HOBBS OCD

JUL 05 2013

Delivery Note

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

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

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

Continued...

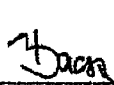
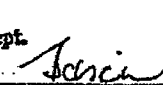
All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

Coflex Hose Certification



HOESS OCD Fluid Technology
JUL 05 2013 Quality Document

RECEIVED

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:	Inspector		Quality Control		
04. April. 2008			  ContiTech Rubber Industrial Kft. Quality Control Dept. (1)		

Coflex Hose Certification

Form No 100/12

**Phoenix Beattie Corp**

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

HOBSS OCD

JUL 05 2013

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1 RECEIVED
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 :

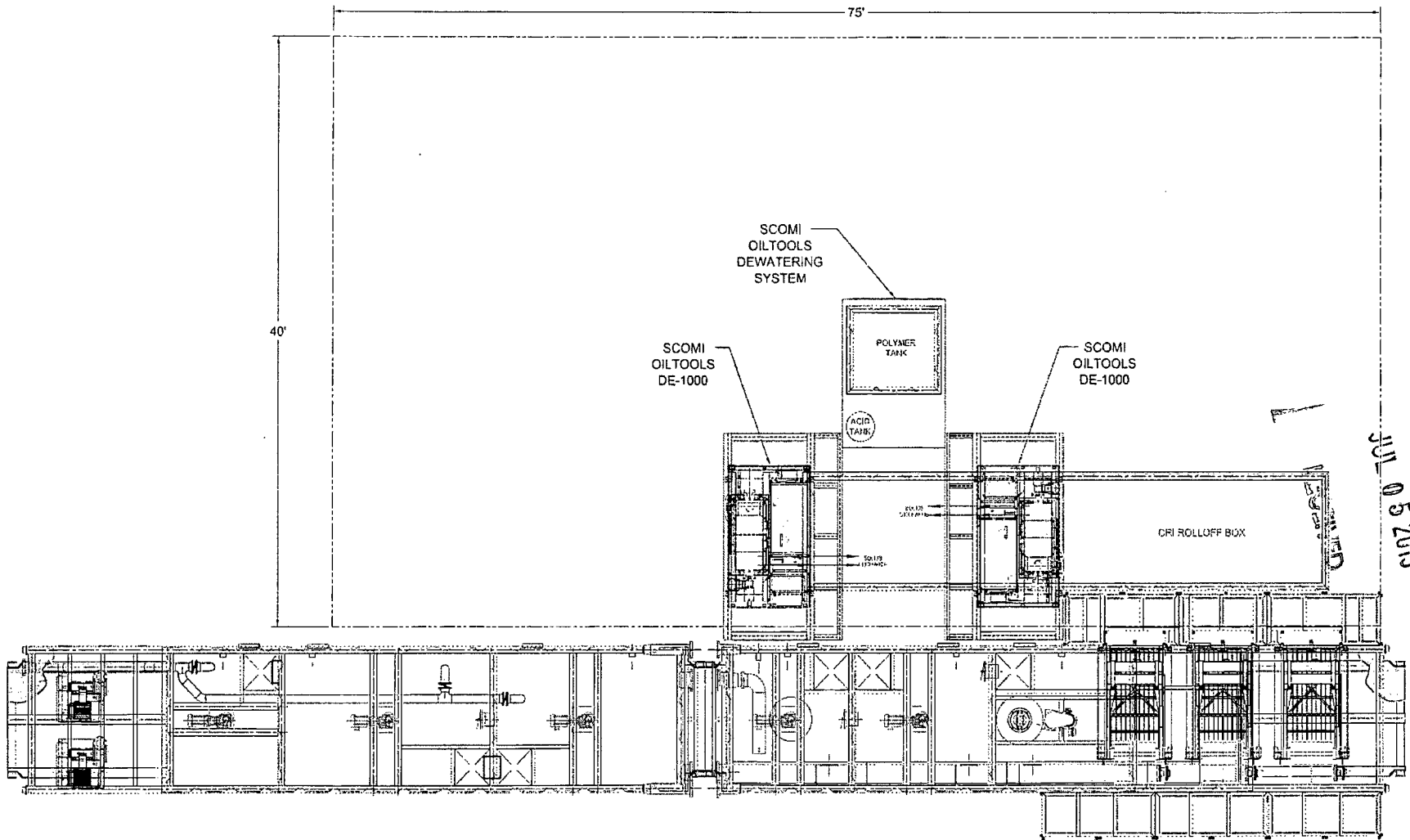
Received in Good Condition : Signature

Print Name

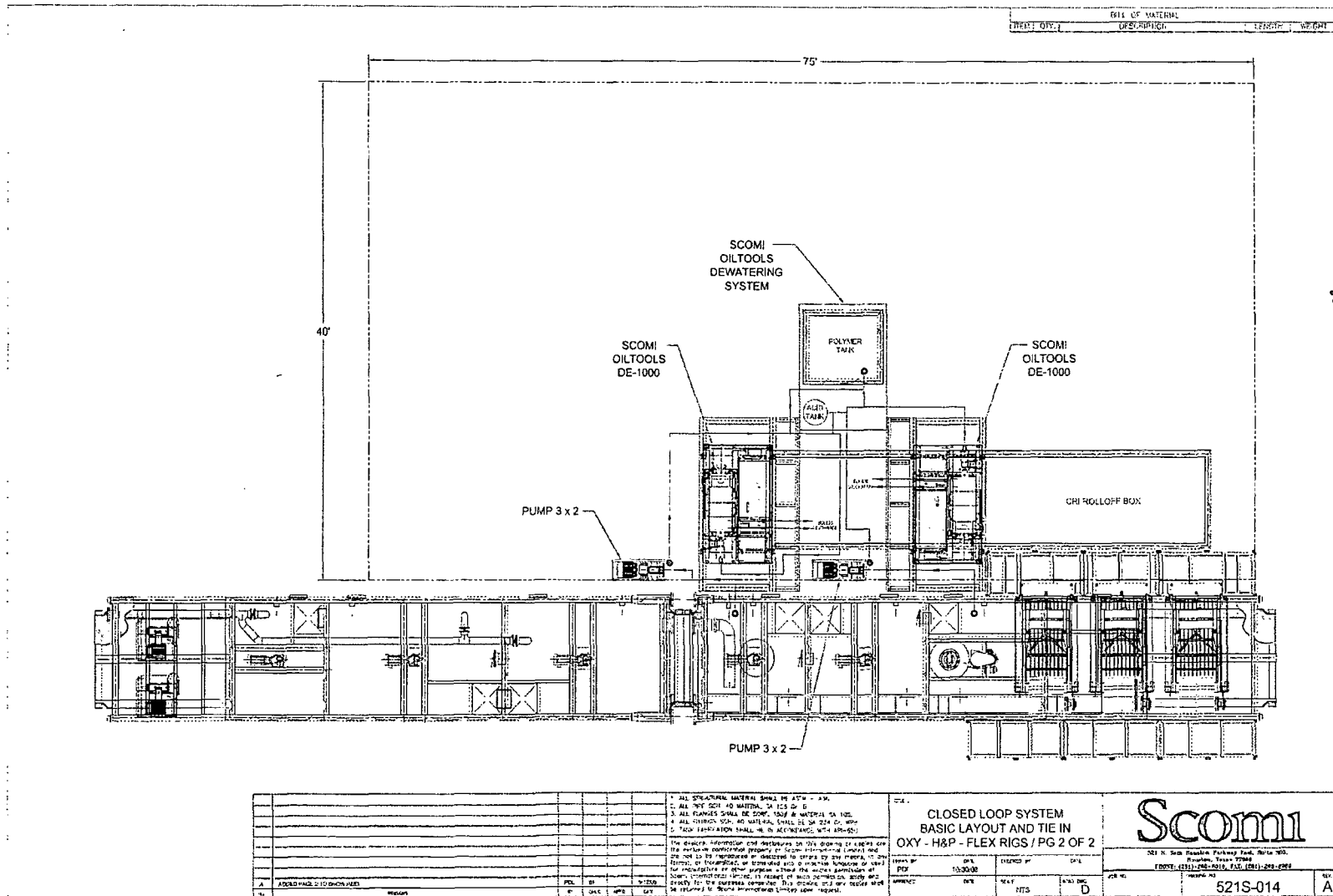
Date

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 MATERIALS				
ITEM	QTY	DESCRIPTION	LENGTH	WEIGHT



				1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36. 2. ALL PIPE SCH. 40 MATERIAL SA 105 Gr. B. 3. ALL FLANGES SHALL BE SCRT. 150# & MATERIAL SA 105. 4. ALL WELDS SCH. 40 MATERIAL SHALL BE SA 234 OR WPS. 5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API-650.	FILE 1 CLOSED LOOP SYSTEM BASIC LAYOUT AND TIE IN OXY - H&P - FLEX RIGS / PG 1 OF 2	Scomi 301 N. Sam Houston Parkway East, Suite 300, Houston, Texas 77060 PHONE: (281) 290-7010, FAX: (281) 290-0909
				The design, information and disclosure on this drawing are the exclusive copyrighted property of Scomi International Limited and are not to be reproduced or disclosed to others by the owner, in any form, or transmitted, or transferred into a machine language or used for manufacture or other purposes without the written permission of Scomi International Limited. In receipt of such permission, such use is strictly for the purposes covered. This drawing and any copies shall be returned to Scomi International Limited upon request.	DRAWN BY: PTH DATE: 10/30/08 CHECKED BY: DMS DATE: 11/03/08 APPROVED BY: NTS SEAL: D JOB NO: 521S-014	REV: A



RECEIVED
 JUL 05 2013
 HOESS OCD