

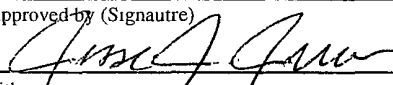
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0136
Expires: November 30, 2000APPLICATION FOR PERMIT TO DRILL OR REENTER **R-111-POTASH**

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM105557
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator OXY USA Inc.		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 50250 Midland, TX 79710-0250	3b. Phone No. (include area code) 16696 432-685-5717	8. Lease Name and Well No. Goodnight 27 Federal #4H ✓
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 284 FSL 1993 FWL SESW(N) At proposed prod. zone 400 FNL 1920 FWL NENW(C)		9. API Well No. 30-015- 39142 ✓
14. Distance in miles and direction from nearest town or post office* 6 miles northeast from Loving, NM		10. Field and Pool, or Exploratory 96378 1500g Harroun Ranch Delaware NE
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg unit line, if any) 284'		11. Sec., T., R., M., or Blk and Survey or Area Sec 27 T23S R29E
16. No. of Acres in lease 640		12. County or Parish Eddy
17. Spacing Unit dedicated to this well 160		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		20. BLM/BIA Bond No. on file ES0136
19. Proposed Depth ✓ 10767'M 6659'V		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3017.5' GL ✓
22. Approximate date work will start* 9/1/10		23. Estimated duration 45

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. | 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 shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

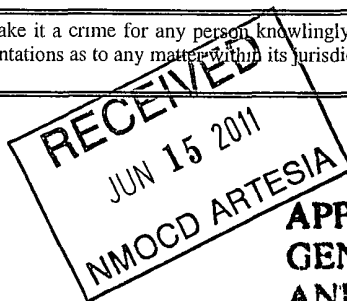
25. Signature 	Name (Printed/Typed) David Stewart	Date 5/13/10
Title Sr. Regulatory Analyst		
Approved by (Signature) 	Name (Printed/Typed) Jesse J. Juen	Date 3/17/2011
Title Acting STATE DIRECTOR	Office NM STATE OFFICE	

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.

*(Instructions on Reverse)

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVALAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DRILLING PROGRAM

Operator Name/Number:	OXY USA Inc.	16696
Lease Name/Number:	Goodnight 27 Federal #4H	Federal Lease No. NM105557
Pool Name/Number:	Undesignated Harroun Ranch Delaware, Northeast	96878
Surface Location:	284 FSL 1993 FWL SESW(N) Sec 27 T23S R29E	
Bottom Hole Location:	400 FNL 1920 FWL NENW(C) Sec 27 T23S R29E	

Proposed TD:	6659'	TVD	10767'	TMD	Elevation: 3017.5'
SL - Lat: 32.2692501	Long: 103.9742545		X=610986.4	Y=461856.6	NAD - 1927
BH - Lat: 32.2810100	Long: 103.9745081		X=610892.4	Y=466498.0	NAD - 1927

1. Geologic Name of Surface Formation:

- a. Permian

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

<u>Geological Marker</u>	<u>Depth</u>	<u>Type</u>
a. Upper Permian Sand	170'	Water
b. Top Salt	550'	
c. Bottom Salt	2790'	
d. Delaware	3020'	Oil
e. Bell Canyon	3050'	Oil
f. Brushy Canyon	6480'	Oil

3. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
17-1/2"	550'	13-3/8"	48#	STC	H40	New	3.57	4.47	4.8
12-1/4"	3020'	9-5/8"	47#	BTC	L80	New	7.78	1.8	4.85
8-1/2"	10767'M	5-1/2"	17#	LTC	N80	New	1.97	1.21	1.71
	DVT-5000'								
	DVT/ECP-3080'								

Collapse and burst loads calculated using Stress Check with anticipated loads

4. Cement Program

- a. 13-3/8" Surface Circulate cement to Surface w/ 610sx PP w/ 4% Bentonite + .125#/sx-Poly E Flake + 2% CaCl₂, 13.5 ppg 1.75 yield

If cement is not circulated, the BLM will be notified, a temperature survey will be run and will be immediately followed by top jobs as necessary to circulate cement to surface.

- b. 9-5/8" Intermediate Circulate cement to surface w/ 726sx HES light PP w/ 5% salt + .125#/sx Poly E Flake + 5#/sx Gilsonite, 12.4ppg, 2.10 yield followed by 200sx PP w/ 1% CaCl₂, 14.8ppg 1.34 yield

- c. 5-1/2" Production 1st stage-Cement w/ 1670sx Super H w/ .5% LAP-1 + .4% CFR-3 + .25#/sx D-AIR 3000 + .3% HR-601, 13.2ppg 1.59 yield
 2nd stage-Cement w/ 510sx IFC w/ .5% LAP-1 + .25#/sx D-AIR 3000 + .125#/sx Poly E Flake 11.9ppg 2.43 yield followed by 100sx PP w/ 1% CaCl2 14.8ppg 1.34 yield
 3rd stage-Cement w/ 340sx IFC w/ .5% LAP-1 + .25#/sx D-AIR 1 1.9ppg 2.43 yield followed by 100sx PP w/ 2% CaCl2 14.8ppg 1.35 yield

The above cement volumes could be revised pending the caliper measurement.

5. Pressure Control Equipment:

Surface 0-550'

None

Production 550-10767'

13-5/8" 10M two ram stack w/ 5M annular preventor, 10M Choke Manifold

All BOP's and associated equipment will be tested to ^{See lora} 1200psi with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Prior to drilling out the 9-5/8" casing shoe, the BOP's and Annular preventer will be tested in accordance with On-shore Order #2.

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 incorporated in 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 entire system be tested as a 5000psi WP rating.

Request variance to connect BOP choke outlet to the choke manifold a co-flex hose that is manufactured by Contitech Rubber Industrial KFT. It is a 3" ID X 35' flexible hose rated to 10000psi working pressure. It has been tested to 15000psi and is built to API Spec 16C. Once the flex line is installed, it will be tied down with safety clamps, certification attached.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u> <u>ppg</u>	<u>Visc</u> <u>sec</u>	<u>Fluid</u> <u>Loss</u>	<u>Type System</u>
0-550'	8.4-8.9	32-34	NC	Fresh Water/MI Gel Spud Mud
550-3020'	9.8-10.0	28-29	NC	Brine Water
3020-6300'	8.8-9.0	28-29	NC	Fresh Water
6300'-TD	9.0-9.8	32-36	10-15	Duo Vis/Poly Pac R

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 Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- 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.

8. Logging, Coring and Testing Program:

See JOP

- a. Drill stem tests are not anticipated but if done will be based on geological sample shows.
- b. The open hole logging program will consist of LWD Gamma Ray from kick-off to TD.
- c. No coring program is planned but if done will be sidewall rotary cores.
- d. Mud loggers are currently planned from intermediate casing point to landing point.

9. Potential Hazards:

No abnormal pressures, temperatures or H₂S gas are expected. The highest anticipated pressure gradient would be .47 psi/ft or 3200psi. If H₂S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No lost circulation is expected to occur. 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 45 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.

Goodnight 27 Federal #4H

2. CASING PROGRAM:

Surface Casing: 13.375" casing set at ±550'MD/550'TVD in a 17.5" hole filled with 8.8 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'-550'	550'	48#	H-40	ST&C	770	1730	322	12.715	12.559	3.57	4.47	4.80

Surface Casing: 9.625" casing set at ±3020'MD/3020'TVD in a 12.25" hole filled with 10.0 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-3020'	3020'	47#	L-80	BT&C	4760	6870	893	8.681	8.525	7.78	1.8	4.85

Production Casing: 5.5" casing set at ±10767'MD/6659'TVD in a 8.5" hole filled with 9.20 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'-10767'	10,767'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.97	1.21	1.71

Collapse and burst loads calculated using StressCheck with actual anticipated loads.

3. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC: 0' – 550')							
Lead: 0' – 550' (165% Excess)	610	550'	Premium Plus Cement, with 4% Bentonite, 2% Calcium Chloride, & 0.125 lb/sk Poly-E-Flake	9.18	13.5	1.75	985 psi

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Intermediate (TOC: 0' – 3020')							
Lead: 0' – 2624' (100% Excess)	726	2624'	Light Premium Plus Cement, with 5% Salt, 5 lb/sk Gilsontite, & 0.125 lb/sk Poly-E-Flake	11.09	12.4	2.10	511 psi
Tail: 2624' – 3020' (100% Excess)	200	396'	Premium Plus cement with 1% Calcium Chloride	6.36	14.8	1.34	2125 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (TOC: 5000') 1st Stage							
Lead: 5000' – 10,767' (100% Excess)	1670	5767'	Super H Cement with 0.5% LAP-1 (Low Fluid Loss Control), 0.4% CFR-3 (Dispersant), 0.25 lb/sk D-AIR 3000 (Defoamer), & 0.2% HR-601 (Retarder)	8.28	13.2	1.59	1650 psi
DV Tool @ 5,000'							
Production (TOC: 3080') 2nd Stage							
Lead: 3080' – 4806' (200% Excess)	510	1726'	Interfill C with 0.5% LAP-1 (Low Fluid Loss Control), 0.125 lb/sk Poly-E-Flake (Lost Circulation Additive), & 0.25 lb/sk D-AIR 3000 (Defoamer)	13.84	11.9	2.43	290 psi
Tail: 4806' – 5000' (200% Excess)	100	194'	Premium Plus cement with 1% Calcium Chloride	6.36	14.8	1.34	2100 psi
Pack-Off Stage Tool @ 3,080'							
Production (TOC: Surface) 3rd Stage							
Lead: 0' – 2704' (25% Excess of Annular Volume)	340	2704'	Interfill C with 0.5% LAP-1 (Low Fluid Loss Control) & 0.25 lb/sk D-AIR 3000 (Defoamer)	13.86	11.9	2.43	240 psi
Tail: 2704' – 3080' (25% Excess of Annular Volume)	100	376'	Premium Plus cement with 2% Calcium Chloride	6.39	14.8	1.35	1980 psi



Project: Eddy County, NM
Site: Goodnight 27 Fed.
Well: Well #4H
Wellbore: OH
Plan: Plan #1 (Well #4H/OH)



Magnetic North: 7.75°

Magnetic Field
Strength: 48739.5nT
Dip Angle: 60.19°
Date: 2010/01/22
Model: IGRF2010



WELL DETAILS: Well #4H

Ground Elevation: 3017.50
RKB Elevation: RKB to MSL @ 3042.50ft (H&P 370)
Rig Name: H&P 370

PROJECT DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid

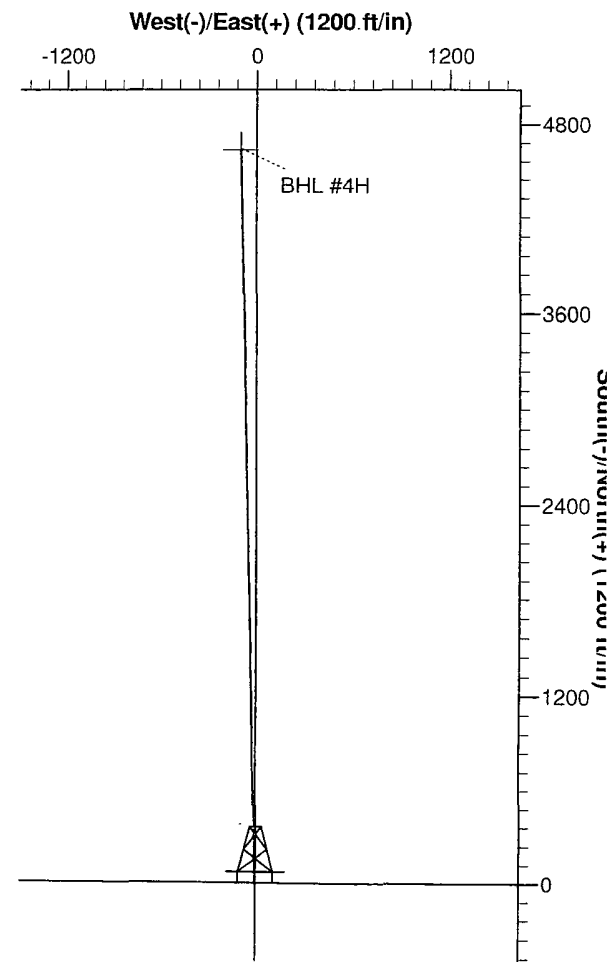
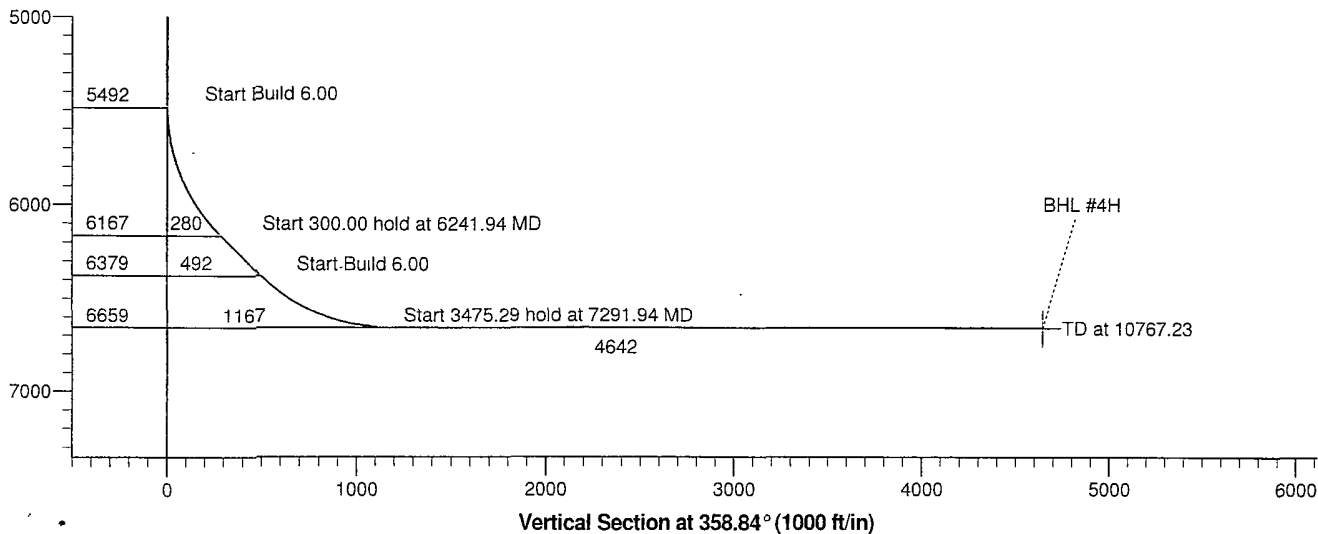
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	461856.60	610986.40	32° 16' 9.30073 N	103° 58' 27.31555 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5491.94	0.00	0.00	5491.94	0.00	0.00	0.00	0.00	0.00	
3	6241.94	45.00	358.84	6167.18	279.63	-5.66	6.00	358.84	279.69	
4	6541.94	45.00	358.84	6379.31	491.72	-9.96	0.00	0.00	491.82	
5	7291.94	90.00	358.84	6659.00	1166.82	-23.63	6.00	0.00	1167.06	
6	10767.23	90.00	358.84	6659.00	4641.40	-94.00	0.00	0.00	4642.35	BHL #4H

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL #4H	6659.00	4641.40	-94.00	466498.00	610892.40	Point



Plan: Plan #1 (Well #4H/OH)
Created By: Kurt Otto Date: 9:04, January 22 2010



PathFinder Energy Services
PathFinder Standard X&Y Report



Company:	OXY Permian	Local Co-ordinate Reference:	Well #4H
Project:	Eddy County, NM	TVD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Site:	Goodnight 27 Fed.	MD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Well:	Well #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Landmark Network DB

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

Site:	Goodnight 27 Fed.		
Site Position:		Northing:	461,856.60 ft
From:	Map	Easting:	610,986.40 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 16' 9.30073 N
		Longitude:	103° 58' 27.31555 W
		Grid Convergence:	0.19 °

Well		Well #4H				
Well Position	+N/-S	0.00 ft	Northing:	461,856.60 ft	Latitude:	32° 16' 9.30073 N
	+E/-W	0.00 ft	Easting:	610,986.40 ft	Longitude:	103° 58' 27.31555 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,017.50 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/01/22	7.94	60.19	48,740

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	358.84

Survey Tool Program	Date	2010/01/22		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.00	10,767.23	Plan #1 (OH)	MWD	MWD - Standard



PathFinder Energy Services
PathFinder Standard X&Y Report



Company:	OXY Permian	Local Co-ordinate Reference:	Well Well #4H
Project:	Eddy County, NM	TVD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Site:	Goodnight 27 Fed	MD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Well:	Well #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Landmark Network DB

Planned Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (%/100ft)	
5,491.94	0.00	0.00	5,491.94	-2,449.44	0.00	0.00	0.00	0.00	
5,500.00	0.48	358.84	5,500.00	-2,457.50	0.03	0.03	0.00	6.00	
5,550.00	3.48	358.84	5,549.96	-2,507.46	1.76	1.76	-0.04	6.00	
5,600.00	6.48	358.84	5,599.77	-2,557.27	6.11	6.11	-0.12	6.00	
5,650.00	9.48	358.84	5,649.28	-2,606.78	13.05	13.05	-0.26	6.00	
5,700.00	12.48	358.84	5,698.36	-2,655.86	22.58	22.57	-0.46	6.00	
5,750.00	15.48	358.84	5,746.87	-2,704.37	34.66	34.65	-0.70	6.00	
5,800.00	18.48	358.84	5,794.68	-2,752.18	49.26	49.25	-1.00	6.00	
5,850.00	21.48	358.84	5,841.67	-2,799.17	66.35	66.33	-1.34	6.00	
5,900.00	24.48	358.84	5,887.69	-2,845.19	85.87	85.85	-1.74	6.00	
5,950.00	27.48	358.84	5,932.63	-2,890.13	107.77	107.75	-2.18	6.00	
6,000.00	30.48	358.84	5,976.37	-2,933.87	132.00	131.97	-2.67	6.00	
6,050.00	33.48	358.84	6,018.77	-2,976.27	158.48	158.44	-3.21	6.00	
6,100.00	36.48	358.84	6,059.73	-3,017.23	187.14	187.10	-3.79	6.00	
6,150.00	39.48	358.84	6,099.14	-3,056.64	217.91	217.86	-4.41	6.00	
6,200.00	42.48	358.84	6,136.88	-3,094.38	250.70	250.65	-5.08	6.00	
6,241.94	45.00	358.84	6,167.18	-3,124.68	279.69	279.63	-5.66	6.00	
6,300.00	45.00	358.84	6,208.23	-3,165.73	320.75	320.68	-6.49	0.00	
6,400.00	45.00	358.84	6,278.94	-3,236.44	391.46	391.38	-7.93	0.00	
6,500.00	45.00	358.84	6,349.65	-3,307.15	462.17	462.07	-9.36	0.00	
6,541.94	45.00	358.84	6,379.31	-3,336.81	491.82	491.72	-9.96	0.00	
6,550.00	45.48	358.84	6,384.98	-3,342.48	497.55	497.45	-10.07	6.00	
6,600.00	48.48	358.84	6,419.09	-3,376.59	534.10	533.99	-10.81	6.00	
6,650.00	51.48	358.84	6,451.24	-3,408.74	572.39	572.27	-11.59	6.00	
6,700.00	54.48	358.84	6,481.34	-3,438.84	612.31	612.18	-12.40	6.00	
6,712.45	55.23	358.84	6,488.50	-3,446.00	622.49	622.36	-12.60	6.00	
Brushy Canyon Marker									



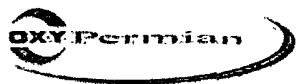
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Project:	Eddy County, NM	TVD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
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Well:	Well #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Landmark Network DB

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	IDeg (°/100ft)
6,750.00	57.48	358.84	6,509.30	-3,466.80	653.75	653.61	-13.24	6.00
6,800.00	60.48	358.84	6,535.07	-3,492.57	696.59	696.45	-14.10	6.00
6,850.00	63.48	358.84	6,558.55	-3,516.05	740.73	740.58	-15.00	6.00
6,872.84	64.85	358.84	6,568.50	-3,526.00	761.29	761.13	-15.41	6.00
Brushy Canyon "C"								
6,900.00	66.48	358.84	6,579.69	-3,537.19	786.03	785.87	-15.92	6.00
6,950.00	69.48	358.84	6,598.43	-3,555.93	832.38	832.21	-16.85	6.00
7,000.00	72.48	358.84	6,614.72	-3,572.22	879.65	879.47	-17.81	6.00
7,049.94	75.48	358.84	6,628.50	-3,586.00	927.64	927.45	-18.78	6.00
Brushy Canyon "B"								
7,050.00	75.48	358.84	6,628.52	-3,586.02	927.70	927.51	-18.78	6.00
7,100.00	78.48	358.84	6,639.78	-3,597.28	976.41	976.21	-19.77	6.00
7,150.00	81.48	358.84	6,648.47	-3,605.97	1,025.64	1,025.43	-20.77	6.00
7,200.00	84.48	358.84	6,654.58	-3,612.08	1,075.26	1,075.04	-21.77	6.00
7,250.00	87.48	358.84	6,658.08	-3,615.58	1,125.14	1,124.91	-22.78	6.00
7,291.94	90.00	358.84	6,659.00	-3,616.50	1,167.06	1,166.82	-23.63	6.00
7,300.00	90.00	358.84	6,659.00	-3,616.50	1,175.12	1,174.88	-23.79	0.00
7,400.00	90.00	358.84	6,659.00	-3,616.50	1,275.12	1,274.86	-25.82	0.00
7,500.00	90.00	358.84	6,659.00	-3,616.50	1,375.12	1,374.84	-27.84	0.00
7,600.00	90.00	358.84	6,659.00	-3,616.50	1,475.12	1,474.82	-29.87	0.00
7,700.00	90.00	358.84	6,659.00	-3,616.50	1,575.12	1,574.80	-31.89	0.00
7,800.00	90.00	358.84	6,659.00	-3,616.50	1,675.12	1,674.78	-33.92	0.00
7,900.00	90.00	358.84	6,659.00	-3,616.50	1,775.12	1,774.76	-35.94	0.00
8,000.00	90.00	358.84	6,659.00	-3,616.50	1,875.12	1,874.74	-37.97	0.00
8,100.00	90.00	358.84	6,659.00	-3,616.50	1,975.12	1,974.72	-39.99	0.00
8,200.00	90.00	358.84	6,659.00	-3,616.50	2,075.12	2,074.70	-42.02	0.00
8,300.00	90.00	358.84	6,659.00	-3,616.50	2,175.12	2,174.68	-44.04	0.00

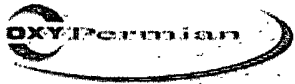


PathFinder Energy Services
PathFinder Standard X&Y Report



Company:	OXY Permian	Local Co-ordinate Reference:	Well Well #4H
Project:	Eddy County NM	TVD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Site:	Goodnight 27 Fed	MD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Well:	Well #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Landmark Network DB

Planned Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	D Leg (%/100ft)	
8,400.00	90.00	358.84	6,659.00	-3,616.50	2,275.12	2,274.66	-46.07	0.00	
8,500.00	90.00	358.84	6,659.00	-3,616.50	2,375.12	2,374.64	-48.09	0.00	
8,600.00	90.00	358.84	6,659.00	-3,616.50	2,475.12	2,474.62	-50.12	0.00	
8,700.00	90.00	358.84	6,659.00	-3,616.50	2,575.12	2,574.59	-52.14	0.00	
8,800.00	90.00	358.84	6,659.00	-3,616.50	2,675.12	2,674.57	-54.17	0.00	
8,900.00	90.00	358.84	6,659.00	-3,616.50	2,775.12	2,774.55	-56.19	0.00	
9,000.00	90.00	358.84	6,659.00	-3,616.50	2,875.12	2,874.53	-58.22	0.00	
9,100.00	90.00	358.84	6,659.00	-3,616.50	2,975.12	2,974.51	-60.24	0.00	
9,200.00	90.00	358.84	6,659.00	-3,616.50	3,075.12	3,074.49	-62.27	0.00	
9,300.00	90.00	358.84	6,659.00	-3,616.50	3,175.12	3,174.47	-64.29	0.00	
9,400.00	90.00	358.84	6,659.00	-3,616.50	3,275.12	3,274.45	-66.32	0.00	
9,500.00	90.00	358.84	6,659.00	-3,616.50	3,375.12	3,374.43	-68.34	0.00	
9,600.00	90.00	358.84	6,659.00	-3,616.50	3,475.12	3,474.41	-70.37	0.00	
9,700.00	90.00	358.84	6,659.00	-3,616.50	3,575.12	3,574.39	-72.39	0.00	
9,800.00	90.00	358.84	6,659.00	-3,616.50	3,675.12	3,674.37	-74.42	0.00	
9,900.00	90.00	358.84	6,659.00	-3,616.50	3,775.12	3,774.35	-76.44	0.00	
10,000.00	90.00	358.84	6,659.00	-3,616.50	3,875.12	3,874.33	-78.46	0.00	
10,100.00	90.00	358.84	6,659.00	-3,616.50	3,975.12	3,974.31	-80.49	0.00	
10,200.00	90.00	358.84	6,659.00	-3,616.50	4,075.12	4,074.29	-82.51	0.00	
10,300.00	90.00	358.84	6,659.00	-3,616.50	4,175.12	4,174.27	-84.54	0.00	
10,400.00	90.00	358.84	6,659.00	-3,616.50	4,275.12	4,274.25	-86.56	0.00	
10,500.00	90.00	358.84	6,659.00	-3,616.50	4,375.12	4,374.23	-88.59	0.00	
10,600.00	90.00	358.84	6,659.00	-3,616.50	4,475.12	4,474.21	-90.61	0.00	
10,700.00	90.00	358.84	6,659.00	-3,616.50	4,575.12	4,574.18	-92.64	0.00	
10,767.23	90.00	358.84	6,659.00	-3,616.50	4,642.35	4,641.40	-94.00	0.00	



PathFinder Energy Services
PathFinder Standard X&Y Report

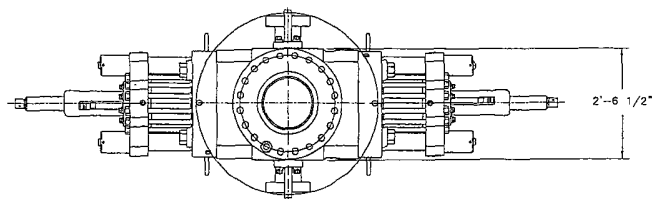


Company:	OXY Permian	Local Co-ordinate Reference:	Well Well #4H
Project:	Eddy County NM	TVD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Site:	Goodnight 27 Fed	MD Reference:	RKB to MSL @ 3042.50ft (H&P 370)
Well:	Well #4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Landmark Network DB

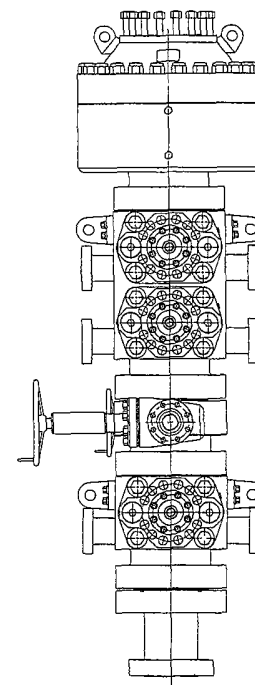
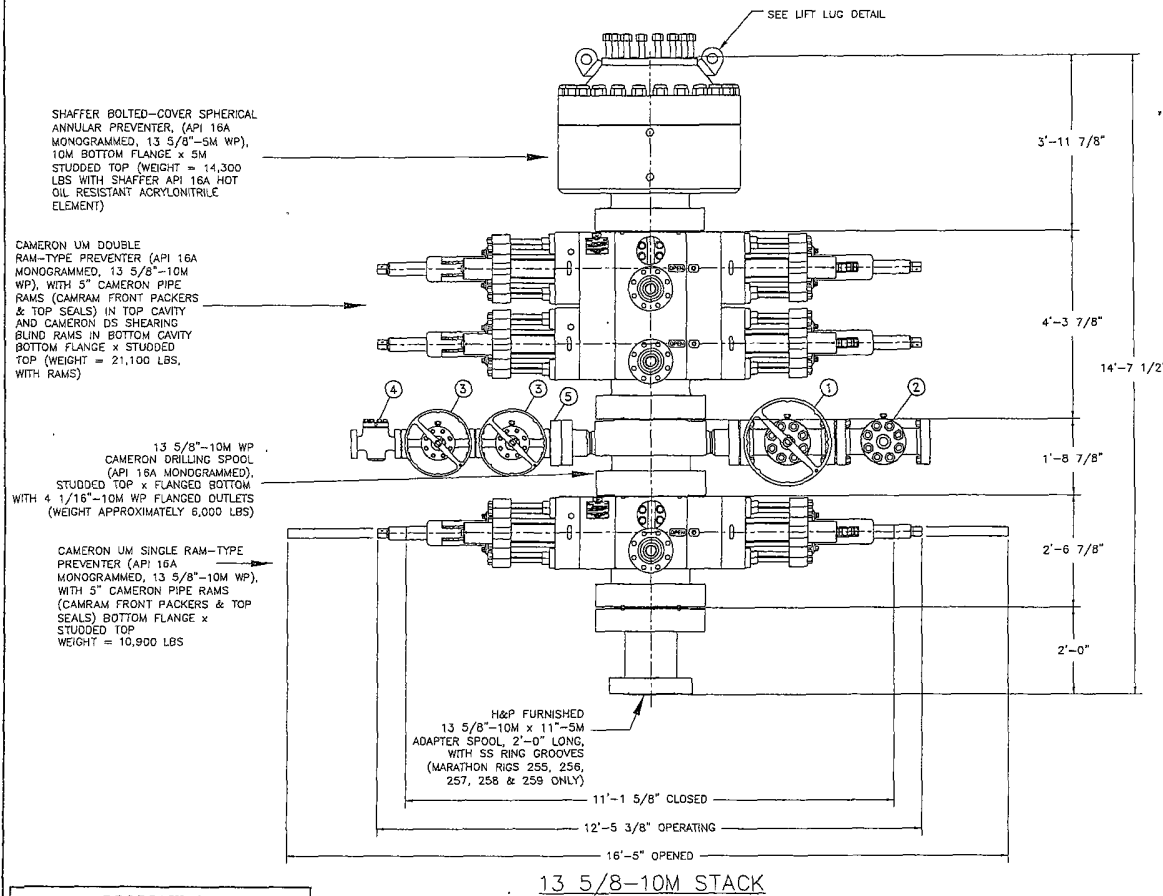
Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
BHL #4H	0.00	0.00	6,659.00	4,641.40	-94.00	466,498.00	610,892.40	32° 16' 55.23563 N	03° 58' 28.22958 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
	6,748.50	Brushy Canyon "A" Base		0.00		
6,872.84	6,568.50	Brushy Canyon "C"		0.00		
7,049.94	6,628.50	Brushy Canyon "B"		0.00		
6,712.45	6,488.50	Brushy Canyon Marker		0.00		
3,058.50	3,058.50	Bell Canyon		0.00		

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



- 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



**ISSUED FOR
FABRICATION**
December-18-2007
DRAFTSMAN _____
ENGINEER _____

API 5A MONOGRAMMED CAMERON CHOKE AND KILL WING VALVE ASSEMBLIES ARE NOT SHOWN FOR CLARITY

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

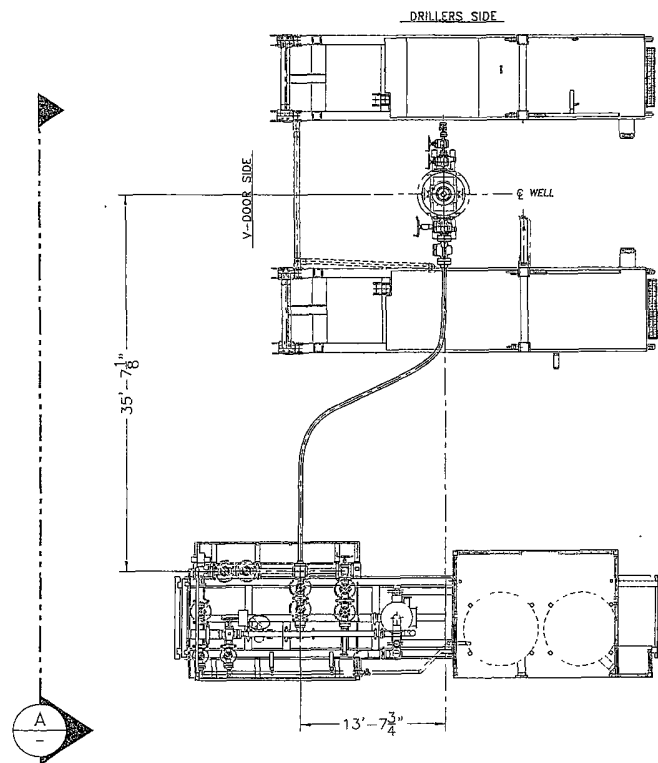
PROPRIETARY

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.

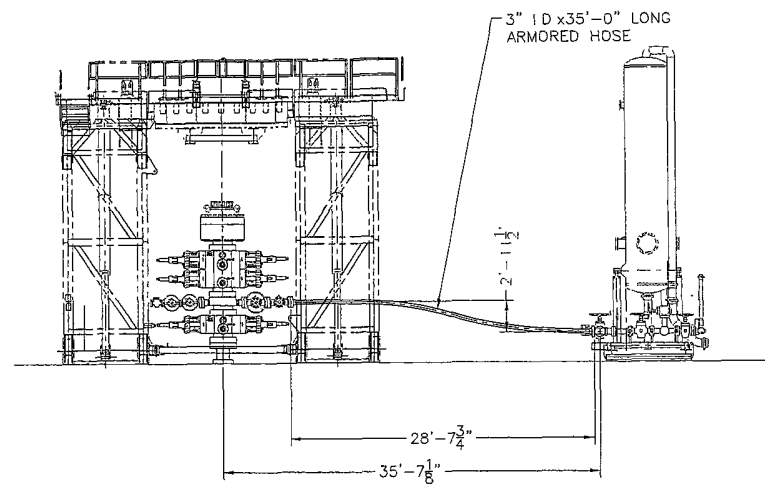
13 5/8-10M STACK

ENGINEERING APPROVAL			DATE	TITLE
	12/18/07	ADDED SHEET 03	JAV	13 5/8"-10M BOP 3 RAM STACK FLEXRIG3
	4-10-07	ORIENTATION REVISED DOUBLE STUDDED ADAPTER, VALVES 1, 2, & 3, AND MS CHECK VALVE ADDED	JBG	CUSTOMER H&P
	4-04-07	5" ADDED TO SPACER ADAPTER SPOOL	JBG	PROJECT FLEXRIG3
	02-07-07	ADDED ADAPTER SPOOL	MWL	DRAWN MTS
	08-13-02	CORRECTED BOP STACK	MWL	DATE 6-5-02
REV	DATE	DESCRIPTION	BY	SCALE 3/4"=1' SHEET 1 OF 1 DWG NO 210-P1-07

Exhibit # 4A



PLAN VIEW



SECTION "A"

**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 AUTHO-
RIZED OFFICER OF HELMERICH & PAYNE INT'L DRILLING CO.

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

**CHOKE LINE SYSTEM
FLEXRIG3**

ENGINEERING APPROVAL			DATE	TITLE			
△				CHOKE LINE SYSTEM FLEXRIC3			
△							
△							
△							
CUSTOMER							
PROJECT							
△	12/18/07	REMOVED SHEET TOTAL CALLOUT	JAV	DRAWN.	JBG	DATE 4-10-07	DWG NO
REV	DATE	DESCRIPTION	BY	SCALE	3/16"=1'	SHEET 2 OF 3	210-P1-07

REV

Exhibit #4C

40'-0" x 10'-0"
RIG OFFICE TRAILER

40¹=0¹×10¹-0
MEETING/CHANGE HOUSE

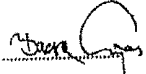
CERTIFICATE OF CONFORMITY

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

STATEMENT OF CONFORMITY

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

COUNTRY OF ORIGIN HUNGARY/EU

Signed : 
Position: Q.C. Manager
Date: 04. April. 2008

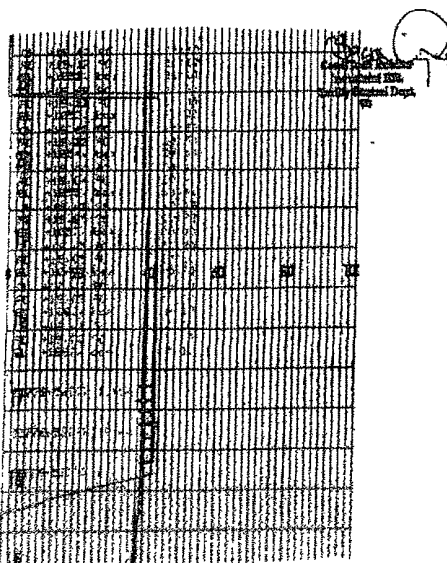
CONTITECH RUBBER
Industrial KFT.
Quality Control Dept.
DE

PHOENIX Beattie Material Identification Certificate										
PA No. 1008330		Client		HELMERICH & PAYNE INT'L DRILLING Client Ref		970-388-001		Page		1
Part No.	Description	Material Desc	Material Spec	Qty	W/O No	Batch No	Test Cert No	Bin No	Drp No	Issue No
WFO-20-423	2" X 100' LBS COIL HOSE X 100' COIL			1	2302	60777/2008				
WFO-20-423	LUTTER & SAFETY EQUIPMENT TO			1	2408	008043				
WFO-20-423	SAFETY CLAMP BUSH 2.000	CARBON STEEL		1	2410	0001				
WFO-20-423	SAFETY CLAMP BUSH 2.000	CARBON STEEL		1	2402	0001				

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.



QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°:	748
PURCHASER:				Phoenix Beattie Co.	
CONTITECH ORDER N°:				412838	
HOSE TYPE:				3" ID Choke and Kill Hose	
HOSE SERIAL N°:				52777	
NOMINAL / ACTUAL LENGTH:				10,67 m	
W.P. 68,98 MPa		10000 psi		T.P. 103,4 MPa 15000 psi	
				Duration: 80 min.	
Pressure test with water at ambient temperature See attachment (1 page) ↑ 10 mm = 10 MPa → 10 mm = 25 MPa					
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange and	917	913	AISI 4130	T7006A	
			AISI 4130	26084	
INFOCHIP INSTALLED				API Spec 16 C Temperature rate: "B"	
All metal parts are finished					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURES TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date:	Inspector:		Quality Control:		
04. April. 2009			Continental Rubber Industrial R&D Quality Control Dept. (U)		



Delivery Note

Customer Order Number	378-369-001	Delivery Note Number	003878	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 378 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
801	JUL	006338	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP1003A-36-AP1 3" 10K 10C CRK HOSE x 36FT OAL ON 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 8X155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 10C Full specification Armor Boarding: Included Fire Rating: Not Included Temperature rating: -25 Deg C to +100 Deg C	1	1	0
2	SECKS-19P3 LIFTING & SAFETY EQUIPMENT TO SUIT HP1003A-36-F1 2 x 180mm ID Safety Clamps 2 x 24mm ID Lifting Collars & element C's 2 x 7M Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-206CS SAFETY CLAMP 200MM 7.25T C/S GALVANIZED	1	1	0

Delivery Note

Customer Order Number	378-369-001	Delivery Note Number	003878	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 378 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
801	JUL	006338	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	ROBERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	ROBERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	BOFREIGHT 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

Date

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage not due to delivery must be reported within 6 days. Returns may be subject to a handling charge.