ATS-12-703

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Form 3160-3
(March 2012)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NM-15003

6. If Indian, Allotee or Tribe Name

TCS 2/5/2013

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.
GOVERNMENT AB FEDERAL #12 <39592>

2. Name of Operator OXY USA WTP Limited Partnership <192463>

9. API Well No.
30-015-41049

3a. Address P.O. BOX 4294
HOUSTON, TX 77210

3b. Phone No. *(include area code)*
713-513-6640

10. Field and Pool, or Exploratory
Old Millman Ranch - Bone Spring <48035>

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface 990' FNL & 1980' FEL
At proposed prod. zone 1930' FNL & 1780' FEL

11. Sec., T. R. M. or Blk. and Survey or Area
B, SEC 10, T20S, R28E

14. Distance in miles and direction from nearest town or post office*
12 Miles Northeast of Carlsbad, N.M.

12. County or Parish
EDDY

13. State
NM

15. Distance from proposed* 990'
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)

16. No. of acres in lease
1720

17. Spacing Unit dedicated to this well
80 40

18. Distance from proposed location*
to nearest well, drilling, completed, 1190.5'
applied for, on this lease, ft.

19. Proposed Depth
6842 MD
6700' TVD

20. BLM/BIA Bond No. on file
ES0136

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3288.8' GL

22. Approximate date work will start*
05/13/2012

23. Estimated duration
10 DAYS

24. Attachments

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

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

25. Signature
Name *(Printed/Typed)* JENNIFER DUARTE (jennifer_duarte@oxy.com)
Date 11/09/2012

Title
REGULATORY ANALYST

Approved by *(Signature)* /s/ Don Peterson
Name *(Printed/Typed)*
Date JAN 31 2013

Title FIELD MANAGER
Office CARLSBAD FIELD OFFICE

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

APPROVAL FOR TWO YEARS

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

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-41049	048035	Old Millman Ranch-Bone Spring

Property Code	Property Name	Well Number
39592	GOVERNMENT AB FEDERAL	12

OGRID No.	Operator Name	Elevation
192463	OXY USA INC.	3291.3'

Surface Location

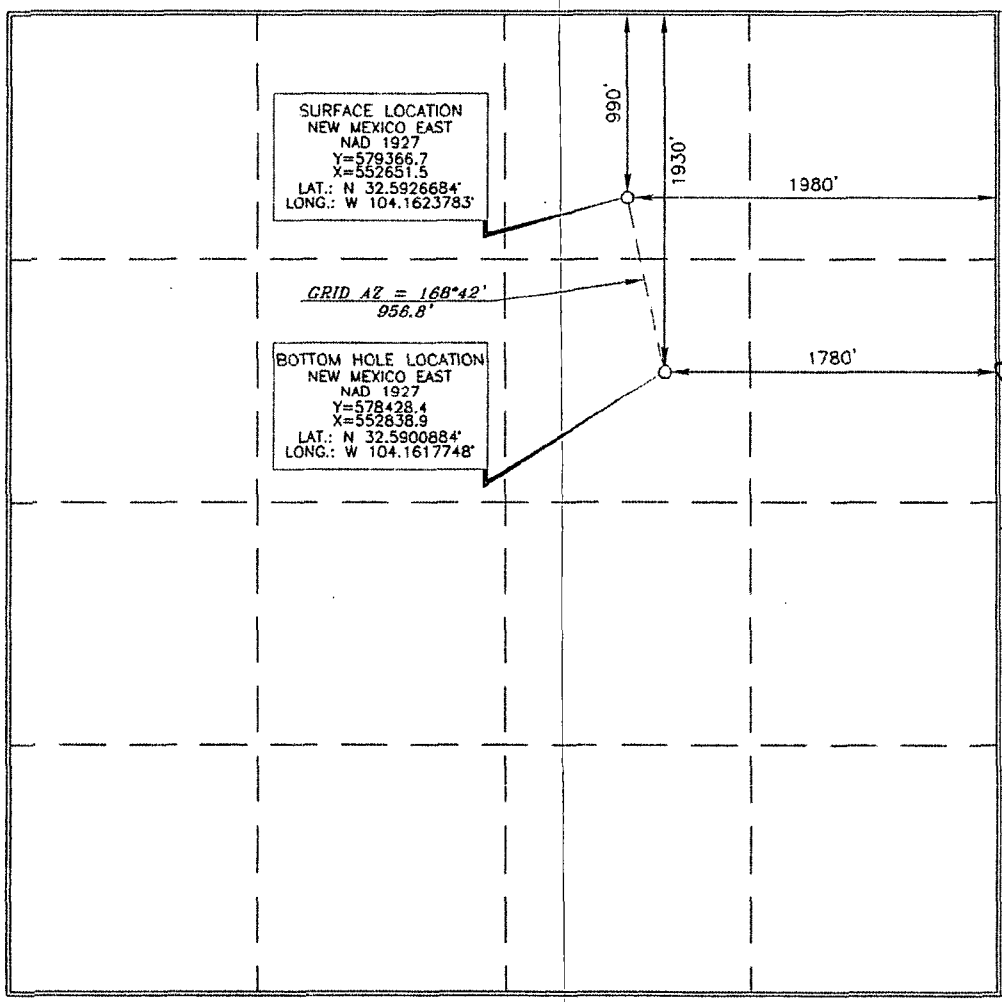
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	20 SOUTH	28 EAST, N.M.P.M.		990'	NORTH	1980'	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	10	20 SOUTH	28 EAST, N.M.P.M.		1930'	NORTH	1780'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
80			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 11/9/12 Date

Jennifer Duarte
Printed Name

jennifer_duarte@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

OCTOBER 24, 2012
Date of Survey

Signature and Seal of Professional Surveyor:

TERRY J. ASEL
NEW MEXICO
15079
PROFESSIONAL LAND SURVEYOR

Terry J. Asel 11/9/2012
Certificate Number 15079

WO# 110920WL-c (Rev. B) (KA)

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220

Attention: Jennifer Duarte

RE: Government AB Federal #12
Section 10, 20S-28E
Eddy County, New Mexico

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

OPERATOR NAME:	OXY USA WTP Limited Partnership
ADDRESS:	P.O. Box 4294 Houston, Texas 77210-4294

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

LEASE NO.:	NM-15003
LEGAL DESCRIPTION:	SL: 1930' FNL & 1780' FEL SWNE (G) PBHL: 1930' FNL & 1780' FEL SWNE (G) Section 10 T20S-R28E Eddy County, New Mexico
FORMATIONS:	Bone Springs
BOND COVERAGE:	Nationwide
BLM BOND FILE NO.:	ES 0136
AUTHORIZED SIGNATURE:	OXY USA WTP Limited Partnership _____ Michael Meir
TITLE:	Land Negotiator
DATE:	April 25, 2012

OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 17th day of May, 2012.

Name: David Schellstede

Position: Reservoir Management Team Leader

Address: 5 Greenway Plaza, Suite 110, Houston, TX 77046

Telephone: 713-366-5013

E-mail: (optional): david_schellstede@oxy.com

Company: OXY USA WTP Limited Partnership

Field Representative (if not above signatory): Dusty Weaver

Address (If different from above): P.O. Box 50250 Midland, TX 79710

Telephone (if different from above): 432-685-5723

E-mail (if different from above): calvin_weaver@oxy.com

APD DATA – DRILLING PLAN –

OPERATOR NAME / NUMBER: OXY USA Inc 16696

LEASE NAME / NUMBER: Government AB Federal #12

STATE: NM **COUNTY:** Eddy

SURFACE LOCATION: 990' FNL & 1980' FEL, Sec 10, T20S, R28E

Surface Location: LAT: 32.5926684 N LONG: 104.1623783 W X: 552651.5 Y: 579366.7 NAD: 27
Bottom Location: LAT: 32.5900884 N LONG: 104.1617748 W X: 552838.9 Y: 578428.4

C-102 PLAT APPROX GR ELEV: 3291.3' **EST KB ELEV:** 3307.8 (16.5' KB)

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

2. **ESTIMATED FOMATION TOPS (FROM KB):**

Formation	TV Depth Top	Expected Fluids
Salado	410'	---
T. Tansill	968'	---
T. Yates	1145'	---
T. Seven Rivers	1329'	---
T. Queen	1950'	---
T. Capitan Reef	2948'	---
T. Delaware	3090'	---
T. Cherry Canyon	3210'	Poss HC
T. Brushy Canyon	3412'	Poss HC
T. Bone Spring	4790'	Poss HC
T. 1st Bone Spring Sand	6303'	Poss HC
Target 1st Bone Spring Sand	6700'	Poss HC

A. Based on the State Engineer Website nearby water wells have been drilled to a depth of less than 200'. Based on offset wells casing programs, a surface casing at 320' should cover any possible fresh water zones above the Salado.

See COA

B. Intermediate casing at ~~3150~~' will cover the Capitan Reef. This section will be drilled with saturated brine to 2900'. From 2900' to ~~3150~~' we will switch to fresh water and drill through the Capitan Reef (2948' to 3090'). Exposure of the Reef to salt water will be minimized this way, as the salt section is above the Reef.

GREATEST PROJECTED TD: 6842' MD/ 6700' TVD **OBJECTIVE:** 1st Bone Spring Sand

3. **CASING PROGRAM: (All casing is in NEW condition)**

Surface Casing: 11.75" casing set at ± 320' MD/ 320' TVD in a 14 ¾" hole filled with 8.40 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
~~350~~ 0'- ~~320~~'	~~350~~ 320'	42	H-40	ST&C	1070	1980	307	11.084	10.928	9.93	1.87	26.21

Intermediate Casing: 8.625" casing set at ± 3150'MD / 3150'TVD in a 10 5/8" hole filled with 10 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**
~~3050~~ 0'- ~~3150~~'	~~3050~~ ~~3150~~'	32	J-55	LT&C	2530	3930	417	7.921	7.875	2.38	1.74	4.75

Production Casing: 5.5" casing set at ± 6842'MD / 6700'TVD in a 7 7/8" hole filled with 8.40 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'- 6842'	6842'	17	L-80	LT&C	6290	7740	338	4.892	4.767	2.15	3.43	3.40

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

See COA

4. CEMENT PROGRAM:

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Surface (TOC: 0' – 320')							
Lead: 0' – 320' (300% Excess)	480	320'	Premium Plus Cement: 2% Calcium Chloride	6.37	14.8	1.35	1326 psi

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Stage 1: Intermediate (TOC: 0' – 3150')							
Lead: 0' – 1782' (200%Excess)	1400	1782'	Light Premium Plus Cement: 3 lbm/sk Salt, 0.125 lb/sk Poly-E-Flake, 5 lbm/sk Kol-Seal	9.48	12.9	1.86	500 psi
Tail: 1782' – 3150' (0%Excess)	220	1368'	Premium Plus Cement: 1% Calcium Chloride	6.36	14.8	1.34	1650 psi
DV TOOL @ 1750' **If cement returns during first stage; DV cancellation tool will be used and second stage cancelled.**							
Stage 2: Intermediate (TOC: 0' – 1750')							
Lead: 0' – 1538' (200%Excess)	460	1538'	Light Premium Plus Cement: 3 lbm/sk Salt, 0.125 lb/sk Poly-E-Flake, 5 lb/sk Kol-Seal	9.48	12.9	1.86	500 psi
Tail: 1538' – 1750' (200%Excess)	100	212'	Premium Plus Cement: 1% Calcium Chloride	6.36	14.8	1.34	1650 psi

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft^3/sk	24 Hr Comp
Stage 1: Production (TOC: 3500' - 6842')							
Lead: 3500' – 5500' (85 %Excess)	270	2000'	50/50 Poz Premium Plus: 8 % Bentonite, 0.125 lbm/sk Poly-E-Flake, 5 % Salt, 2 lbm/sk Kol-Seal	13.96	11.8	2.45	332 psi
Tail: 5500' – 6842' (85% Excess)	280	1342'	Premium Plus Cement: 0.3 % CFR-3, 0.3 % Econolite, 5 lbm/sk Microbond, 0.2 % WellLife 734, 0.5 % Halad(R)-344	7.72	14.2	1.55	1914 psi
DV TOOL @ 3500'							
Stage 2: Production (TOC: 0' – 3500')							
Lead: 0' – 3086' (10 %Excess)	300	3086'	Light Premium Plus Cement: 3 % Salt, 3 lb/sk Kol Seal	11.26	12.4	2.07	447 psi
Tail: 3086' – 3500' (85% Excess)	100	414'	Premium Plus Cement	6.34	14.8	1.33	1692 psi

Description of Cement Additives: Calcium Chloride - Flake (Accelerator), Poly-E-Flake (Lost Circulation Additive), Kol-Seal (Lost Circulation Additive), Bentonite (Light Weight Additive), CFR-3 (Dispersant), Econolite (Light Weight Additive), Microbond (Expander), WellLife 734 (Cement Enhancer), Halad(R)-344 (Low Fluid Loss Control)

5. DIRECTIONAL PLAN

Please see attached directional plan.

6. PRESSURE CONTROL EQUIPMENT:

Surface: 0 – 320' None.

Intermediate: 0 - 3150' the minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required to drill below the surface casing shoe shall be 3000 (3M) psi. Operator will be using a 11" 5M two ram stack with 3M annular preventer and 5M Choke Manifold.

a. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 11 3/4" surface casing and the 11 ¾" SOW x 13 5/8" 3K conventional wellhead; the rotating head body will be installed but the rubber will be installed when it becomes operationally necessary.

b. The BOP and ancillary BOPE will be tested by a third party. All equipment will be tested to 250/1386 against the surface casing (70% of casing burst) psi for 30 minutes by a third party and charted.

c. The pipe rams will be functionally tested every 24 hours; the blind rams will be functionally tested on every trip out of the hole. These functional tests will be documented on the Daily Driller's Log.

d. Other accessory equipment (BOPE) will include a safety valve and subs as needed to fit all drill strings, and a 2" kill line and 3 " choke line having a 5000 psi WP rating, tested to 3,000 psi.

Production: 0 – 6842' will be drilled with a 11" 5M two ram stack with a 3M annular preventer and 5M Choke Manifold.

a. The BOP and ancillary BOPE will be tested by a third party upon installation to the 8 5/8" intermediate casing. All equipment will be tested to 3000 psi (high) and 250 psi (low) except the annular, which will be tested to 70% of its rated working pressure, 2100 psi (high) and 250 psi (low) for ten minutes each. All test will performed against a test plug with the Section B Wellhead valve open to assure that the test is not being performed against the casing

b. The pipe rams will be functionally tested every 24 hours; the blind rams will be functionally tested on every trip out of the hole. These functional tests will be documented on the Daily Driller's Log.

c. Same as above

d. Same as above

e. Oxy requests a variance so to use a co-flex line between the BOP and choke manifold. (schematic attached)
Manufacturer: ContiTech Beattie Co.
Serial Number: 60220
Length: 25' Size: 3" Ends: flanges
WP rating: 5000 psi Anchors required by manufacturer: No

f. See attached BOP & Choke manifold diagrams.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0 – 320' 350	8.4 – 8.8	32 – 38	NC	Fresh Water /Spud Mud
320' – 2900'	9.8 – 10.0	28 – 29	NC	Brine Water
2900' – 3150'	8.4– 8.8	26- 28	NC	Fresh Water
3150' – 6842'	8.4– 8.8	26- 28	NC	Fresh Mud

3150

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. POTENTIAL HAZARDS:

a. H2S detection and breathing equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. If H2S is encountered the operator will comply with Onshore Order #6.

b. The bottomhole pressure is anticipated to be 2927 psi. (0.44 psi/ft)

c. No abnormal temperatures or pressures are anticipated.

d. 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 location is built. Move in operations and drilling is expected to take 18 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.

10. MUD AND WIRELINE LOGGING:

a. Mud logging from Intermediate casing to TD.

b. Run Gamma/Neutron/Density/Resistivity from TD to Intermediate casing, with Gamma/Neutron to surface.

COMPANY PERSONNEL:

Name	Title	Office Phone	Mobile Phone
Anthony Tschacher	Drilling Engineer	(713)985-6949	(832)270-6883
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832)528-3268
Rob Lovelady	Drilling Superintendent	(713)366-5689	(432)813-6332
Douglas Chester	Drilling Manager	(713)366-5194	(713)918-9124

Weatherford®

Drilling Services

Proposal

OXY

OCCIDENTAL PERMIAN LTD.

GOVERNMENT AB #12

EDDY CO, NEW MEXICO

WELL FILE: **PLAN 2**

NOVEMBER 8, 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

Government AB #12
Eddy Co, New Mexico

SECTION DETAILS

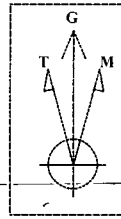
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	168.71	0.00	0.00	0.00	0.00	0.00	0.00	
2	3250.00	0.00	168.71	3250.00	0.00	0.00	0.00	0.00	0.00	
3	4133.13	17.66	168.71	4119.21	-132.43	26.45	2.00	168.71	135.05	
4	6841.60	17.66	168.71	6700.00	-938.30	187.40	0.00	0.00	956.83	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Government AB Fed #12	0.00	0.00	579366.70	552651.50	32°35'33.606N	104°09'44.562W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	6700.00	-938.30	187.40	578428.40	552838.90	Point



Azimuths to Grid North
Mag Dec 7.80
Grid Conv .09
Total Corr 7.71
BGGM2012

Total Correction to Grid North: 7.71°

SITE DETAILS

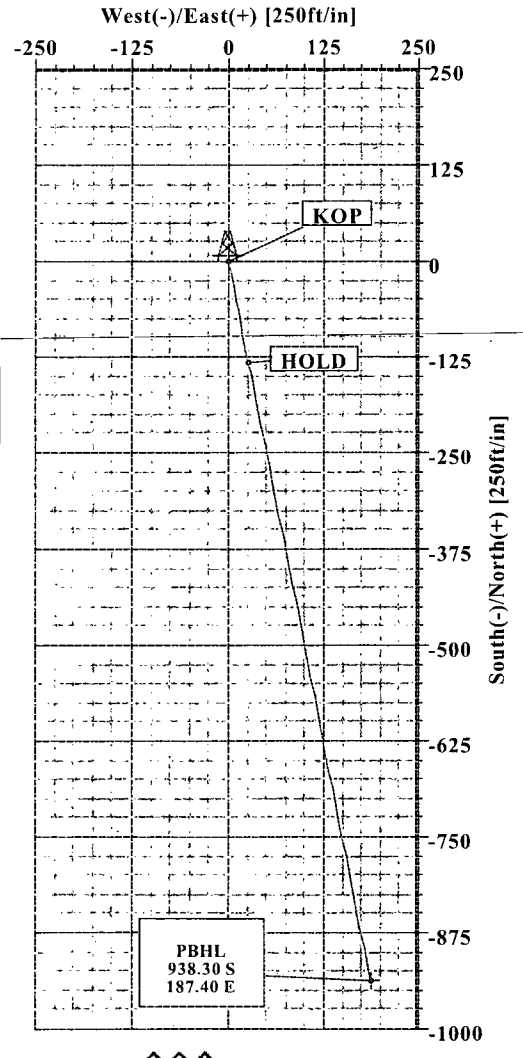
Government AB Fed #12

Site Centre Northing: 579366.70
Easting: 552651.50

Ground Level: 3291.30
Positional Uncertainty: 0.00
Convergence: 0.09

LEGEND

1
Plan #2



Weatherford®

Plan: Plan #2 (Government AB Fed #12/1)

Created By: Patrick Rudolph Date: 11/8/2012

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

Company:	Occidental Permian Ltd.	**Date:**	11/8/2012	**Time:** 10:50:11	**Page:** 1
Field:	Eddy Co, NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Government AB Fed #12, Grid North		
Site:	Government AB Fed #12	**Vertical (TVD) Reference:**	SITE 3307.8		
Well:	Government AB Fed #12	**Section (VS) Reference:**	Well (0.00N,0.00E,168.71Azi)		
Wellpath:	1	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Plan:	Plan #2	**Date Composed:**	11/8/2012
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Site: Government AB Fed #12

Site Position:		**Northing:**	579366.70 ft	**Latitude:**	32	35	33.606	N
From:	Map	**Easting:**	552651.50 ft	**Longitude:**	104	9	44.562	W
Position Uncertainty:	0.00 ft			**North Reference:**			Grid	
Ground Level:	3291.30 ft			**Grid Convergence:**			0.09	deg

Well: Government AB Fed #12 **Slot Name:**

Well Position:	**+N/-S** 0.00 ft	**Northing:**	579366.70 ft	**Latitude:**	32	35	33.606	N
	+E/-W 0.00 ft	**Easting :**	552651.50 ft	**Longitude:**	104	9	44.562	W
Position Uncertainty:	0.00 ft							

Wellpath:	1	**Drilled From:**	Surface
		Tie-on Depth:	0.00 ft
Current Datum:	SITE	**Height** 3307.80 ft	**Above System Datum:** Mean Sea Level
Magnetic Data:	1/1/2013		**Declination:** 7.80 deg
Field Strength:	48622 nT		**Mag Dip Angle:** 60.35 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	6700.00	0.00	0.00	168.71

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	168.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3250.00	0.00	168.71	3250.00	0.00	0.00	0.00	0.00	0.00	0.00	
4133.13	17.66	168.71	4119.21	-132.43	26.45	2.00	2.00	0.00	168.71	
6841.60	17.66	168.71	6700.00	-938.30	187.40	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
3200.00	0.00	168.71	3200.00	0.00	0.00	0.00	0.00	579366.70	552651.50	
3250.00	0.00	168.71	3250.00	0.00	0.00	0.00	0.00	579366.70	552651.50	KOP
3300.00	1.00	168.71	3300.00	-0.43	0.09	0.44	2.00	579366.27	552651.59	
3400.00	3.00	168.71	3399.93	-3.85	0.77	3.93	2.00	579362.85	552652.27	
3500.00	5.00	168.71	3499.68	-10.69	2.14	10.90	2.00	579356.01	552653.64	
3600.00	7.00	168.71	3599.13	-20.94	4.18	21.35	2.00	579345.76	552655.68	
3700.00	9.00	168.71	3698.15	-34.59	6.91	35.27	2.00	579332.11	552658.41	
3800.00	11.00	168.71	3796.63	-51.61	10.31	52.63	2.00	579315.09	552661.81	
3900.00	13.00	168.71	3894.44	-72.00	14.38	73.42	2.00	579294.70	552665.88	
4000.00	15.00	168.71	3991.46	-95.72	19.12	97.62	2.00	579270.98	552670.62	
4100.00	17.00	168.71	4087.58	-122.75	24.52	125.18	2.00	579243.95	552676.02	
4133.13	17.66	168.71	4119.21	-132.43	26.45	135.05	2.00	579234.27	552677.95	HOLD
4200.00	17.66	168.71	4182.93	-152.33	30.42	155.34	0.00	579214.37	552681.92	
4300.00	17.66	168.71	4278.21	-182.08	36.37	185.68	0.00	579184.62	552687.87	
4400.00	17.66	168.71	4373.50	-211.83	42.31	216.02	0.00	579154.87	552693.81	
4500.00	17.66	168.71	4468.78	-241.59	48.25	246.36	0.00	579125.11	552699.75	
4600.00	17.66	168.71	4564.07	-271.34	54.19	276.70	0.00	579095.36	552705.69	
4700.00	17.66	168.71	4659.36	-301.10	60.14	307.04	0.00	579065.60	552711.64	
4800.00	17.66	168.71	4754.64	-330.85	66.08	337.38	0.00	579035.85	552717.58	
4900.00	17.66	168.71	4849.93	-360.60	72.02	367.72	0.00	579006.10	552723.52	
5000.00	17.66	168.71	4945.21	-390.36	77.96	398.07	0.00	578976.34	552729.46	
5100.00	17.66	168.71	5040.50	-420.11	83.91	428.41	0.00	578946.59	552735.41	
5200.00	17.66	168.71	5135.79	-449.86	89.85	458.75	0.00	578916.84	552741.35	

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

Weatherford

Company:	Occidental Permian Ltd.	**Date:** 11/8/2012	**Time:** 10:50:11	**Page:**	2
Field:	Eddy Co, NM (Nad 27)	**Co-ordinate(NE) Reference:**	Well: Government AB Fed #12, Grid North		
Site:	Government AB Fed #12	**Vertical (TVD) Reference:**	SITE 3307.8		
Well:	Government AB Fed #12	**Section (VS) Reference:**	Well (0.00N,0.00E,168.71Azi)		
Wellpath:	1	**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
5300.00	17.66	168.71	5231.07	-479.62	95.79	489.09	0.00	578887.08	552747.29	
5400.00	17.66	168.71	5326.36	-509.37	101.73	519.43	0.00	578857.33	552753.23	
5500.00	17.66	168.71	5421.64	-539.13	107.68	549.77	0.00	578827.57	552759.18	
5600.00	17.66	168.71	5516.93	-568.88	113.62	580.11	0.00	578797.82	552765.12	
5700.00	17.66	168.71	5612.22	-598.63	119.56	610.46	0.00	578768.07	552771.06	
5800.00	17.66	168.71	5707.50	-628.39	125.50	640.80	0.00	578738.31	552777.00	
5900.00	17.66	168.71	5802.79	-658.14	131.45	671.14	0.00	578708.56	552782.95	
6000.00	17.66	168.71	5898.07	-687.89	137.39	701.48	0.00	578678.81	552788.89	
6100.00	17.66	168.71	5993.36	-717.65	143.33	731.82	0.00	578649.05	552794.83	
6200.00	17.66	168.71	6088.65	-747.40	149.27	762.16	0.00	578619.30	552800.77	
6300.00	17.66	168.71	6183.93	-777.15	155.22	792.50	0.00	578589.55	552806.72	
6400.00	17.66	168.71	6279.22	-806.91	161.16	822.84	0.00	578559.79	552812.66	
6500.00	17.66	168.71	6374.50	-836.66	167.10	853.19	0.00	578530.04	552818.60	
6600.00	17.66	168.71	6469.79	-866.42	173.04	883.53	0.00	578500.28	552824.54	
6700.00	17.66	168.71	6565.07	-896.17	178.99	913.87	0.00	578470.53	552830.49	
6800.00	17.66	168.71	6660.36	-925.92	184.93	944.21	0.00	578440.78	552836.43	
6841.60	17.66	168.71	6700.00	-938.30	187.40	956.83	0.00	578428.40	552838.90	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 -Plan hit target			6700.00	-938.30	187.40	578428.40	552838.90	32	35	24.318 N	104	9	42.389 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
3250.00	3250.00	KOP
4133.13	4119.21	HOLD
6841.60	6700.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Field: Eddy Co, NM (Nad 27)

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

Weatherford Drilling Services

GeoDec v5.03

Report Date:	November 08, 2012
Job Number:	
Customer:	Occidental Permian Ltd.
Well Name:	Government AB #12
API Number:	
Rig Name:	
Location:	Eddy Co., NM
Block:	
Engineer:	Patrick Rudolph

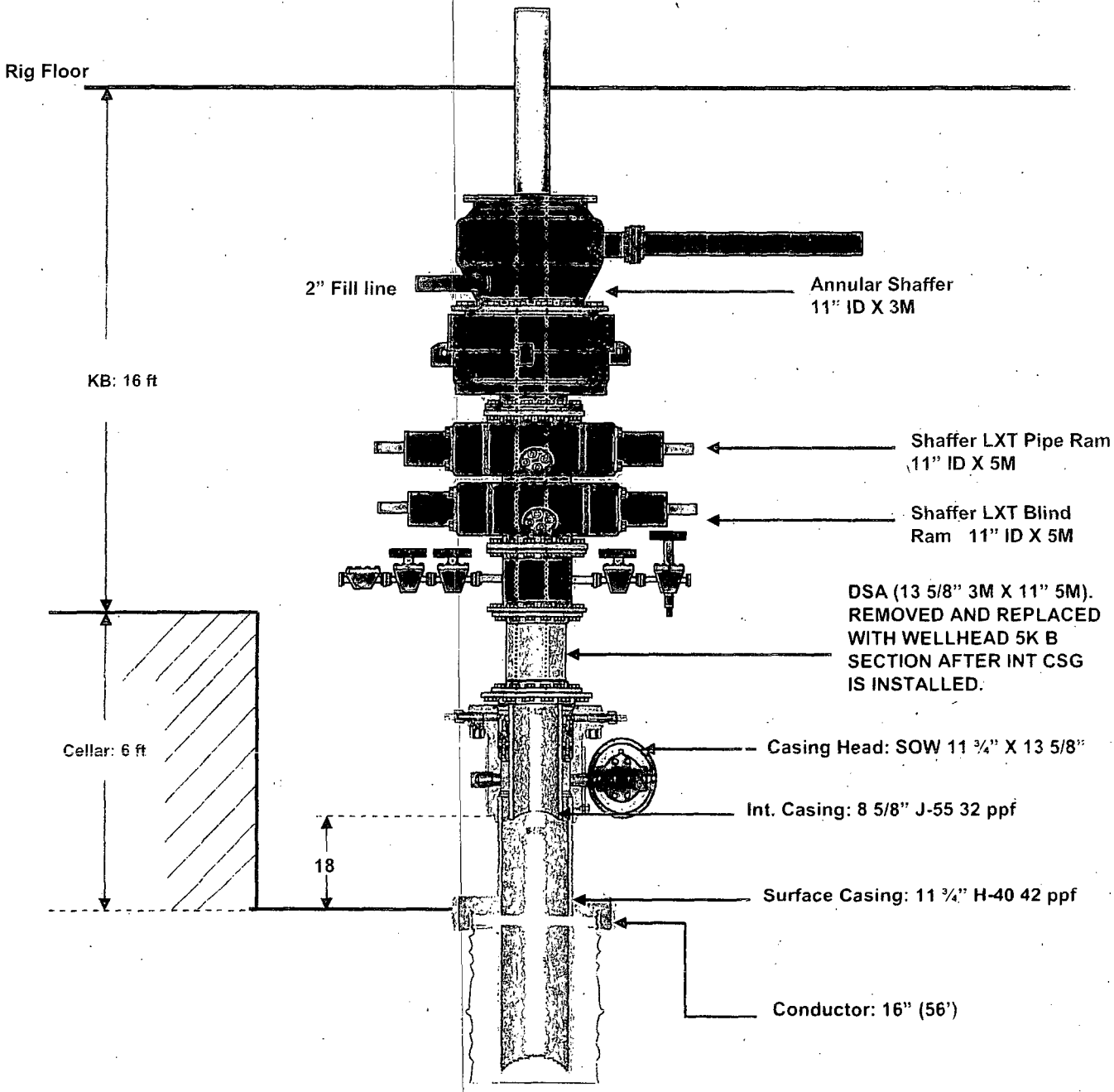
US State Plane 1927	Geodetic Latitude / Longitude
System: New Mexico East 3001 (NON-EXACT)	System: Latitude / Longitude
Projection: SPC27 Transverse Mercator	Projection: Geodetic Latitude and Longitude
Datum: NAD 1927 (NADCON CONUS)	Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866	Ellipsoid: Clarke 1866
North/South 579366.700 USFT	Latitude 32.5926683 DEG
East/West 552651.500 USFT	Longitude -104.1623782 DEG
Grid Convergence: .09°	
Total Correction: +7.71°	

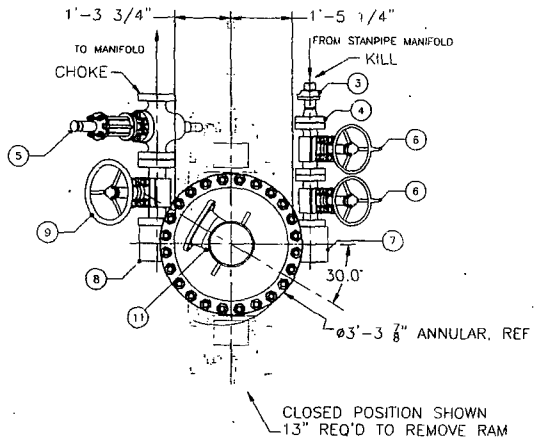
Geodetic Location WGS84		Elevation =	0.0 Meters
Latitude =	32.59267° N		32° 35 min 33.606 sec
Longitude =	104.16238° W		104° 9 min 44.562 sec

Magnetic Declination =	7.80°	[True North Offset]	
Local Gravity =	.9988 g	CheckSum =	6587
Local Field Strength =	48622 nT	Magnetic Vector X =	23832 nT
Magnetic Dip =	60.35°	Magnetic Vector Y =	3266 nT
Magnetic Model =	bggm2012	Magnetic Vector Z =	42255 nT
Spud Date =	Jan 01, 2013	Magnetic Vector H =	24055 nT

Signed:_____ Date:_____

BOP Diagram


Rig Floor
2" Fill line
Annular Shaffer
11" ID X 3M
KB: 16 ft
Shaffer LXT Pipe Ram
11" ID X 5M
Shaffer LXT Blind
Ram 11" ID X 5M
DSA (13 5/8" 3M X 11" 5M).
REMOVED AND REPLACED
WITH WELLHEAD 5K B
SECTION AFTER INT CSG
IS INSTALLED.
Cellar: 6 ft
Casing Head: SOW 11 ¾" X 13 5/8"
Int. Casing: 8 5/8" J-55 32 ppf
18
Surface Casing: 11 ¾" H-40 42 ppf
Conductor: 16" (56')



PROPER TORQUE FOR BOLTS

COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE (FT/LBS) CF=0.07	TORQUE (FT/LBS) CF=0.13
SPOOLS, ANNULAR & RAMS	11"x5M	1 7/8" DIA.	1890	3330
BLOCKS	3 1/8x5M	1 1/8" DIA	401	686
CHOKE VALVES	3 1/8x5M	1 1/8" DIA.	401	686
KILL VALVES	2 1/16x5M	7/8" DIA.	188	319

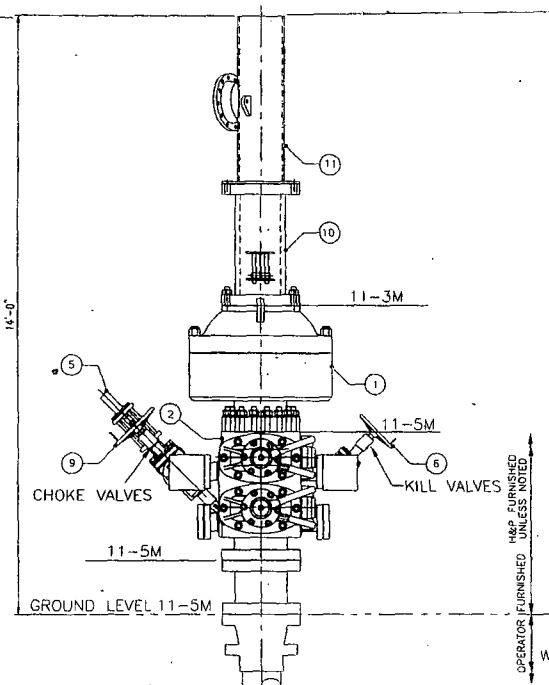
BILL OF MATERIAL

ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
		11-5M BOP ASSEMBLY		
1	1	ANNULAR, 11x3M BOLTED TYPE		6005
2	1	BOP DOUBLE RAM		7600
	4	RAM ELEMENTS		444
3	1	HAMMER UNION, 2-1502# XXH (BW)		5
4	1	FLANGE, WN 2 1/16-5M API		42
5	1	VALVE, GATE FLS-HCR 3 1/8-5M		396
6	2	VALVE, GATE 2 1/16-5M		350
7	1	90° STUDDED BLOCK, 3 1/8-5M X 2 1/16-5M		240
8	1	90° STUDDED BLOCK, 3 1/8-5M X 3 1/8-5M		250
9	2	VALVE, GATE 3 1/8-5M		720
10	1	BELL NIPPLE BOP LIFTING SECTION	MK. F4M-H-318.01A	780
11	1	BELL NIPPLE EXTENSION	MK. F4M-H-319.01A	396
12	1	11"-5M x 11"-5M x 1'-3" LONG SPACER		600
	-	SPOOL- WORKING PRESSURE 5000 PSI		

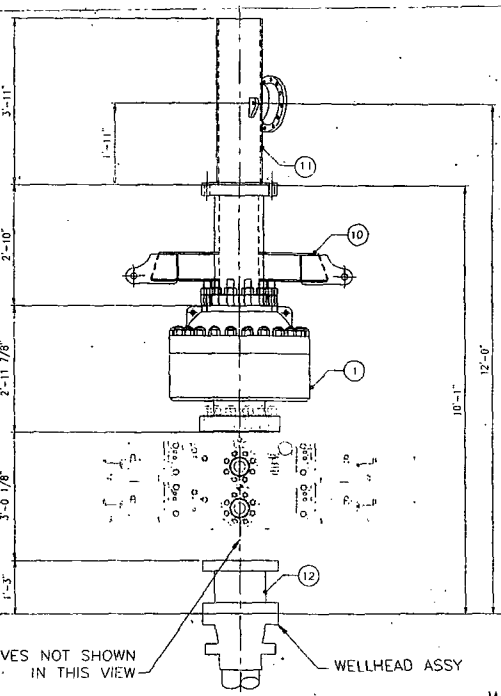
HARDWARE

ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
		RINGS AND BOLTS		400

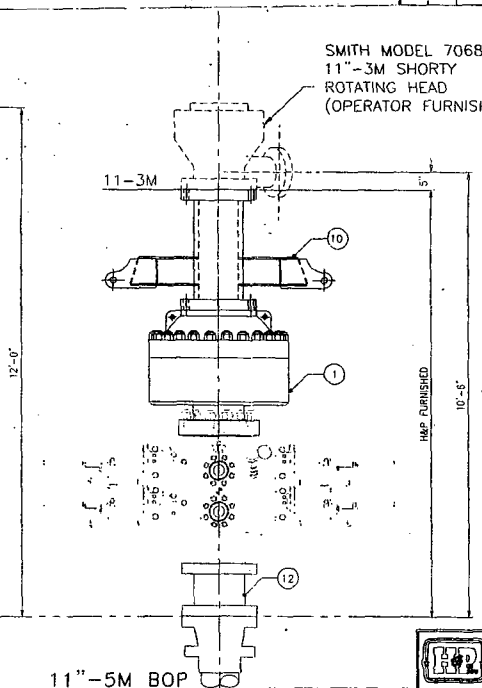
APPROX. TOTAL WEIGHT = 18,228 LBS.



11"-5M BOP
W/ BELL NIPPLE



11"-5M BOP
W/ BELL NIPPLE



11"-5M BOP
W/ ROTATING HEAD

ISSUED FOR FABRICATION
August-08-2008
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.

NOTES:
1. ALL BOP RAMS SHOWN ARE SHAFFER MODEL LXT
   11-5M PSI WP - FLANGED BOTTOM AND STUDDED TOP

REV	DATE	DESCRIPTION	BY
B	08/08/08	ADDED 1 OF 4 SHTS WAS 1 OF 3	DRJ
A	07/29/08	SHEET 1 OF 3 WAS 1 OF 5	DRJ

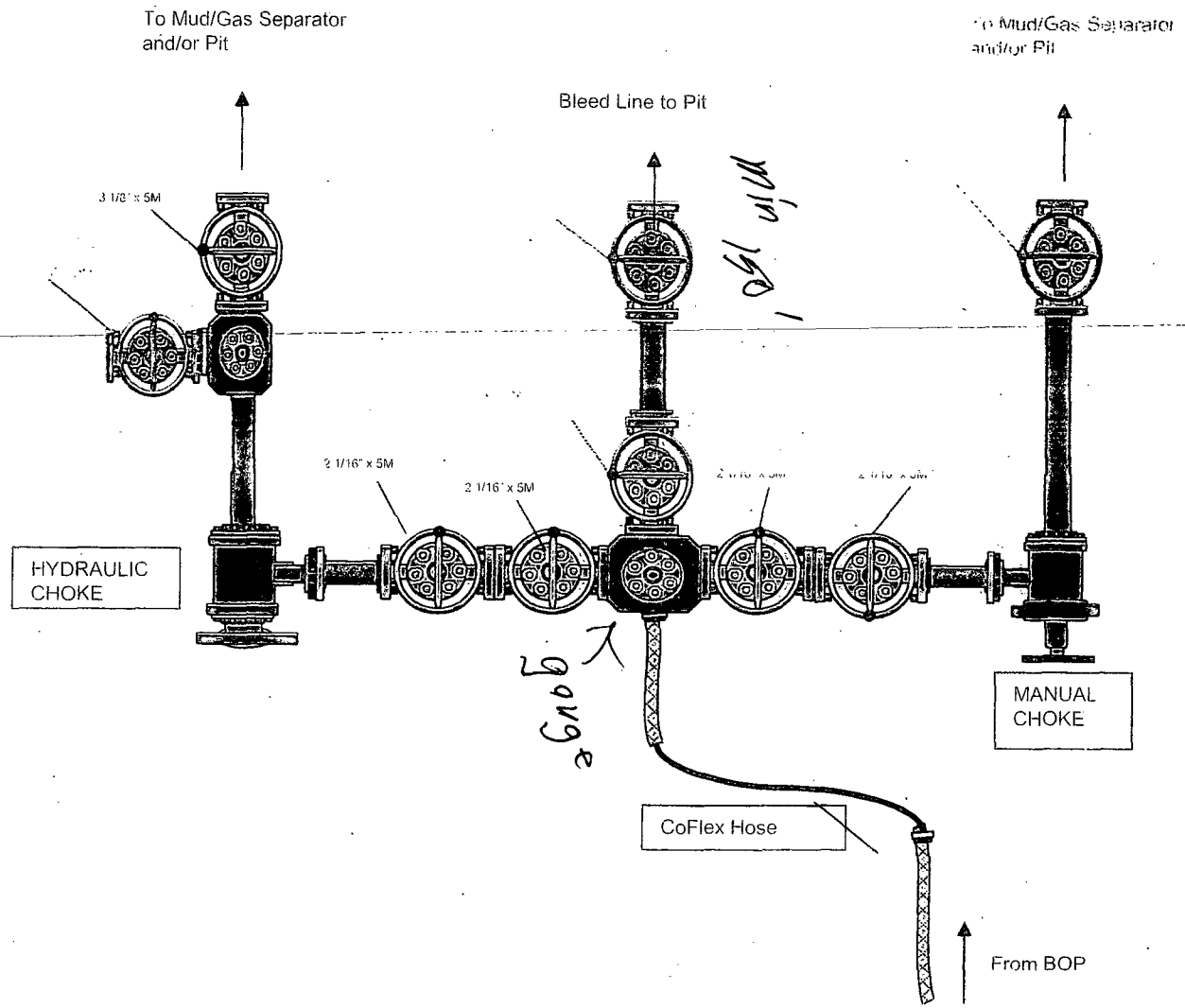
ENGINEERING APPROVAL | DATE

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

TITLE:
11-5M BOP EQUIPMENT
GENERAL ARRANGEMENT

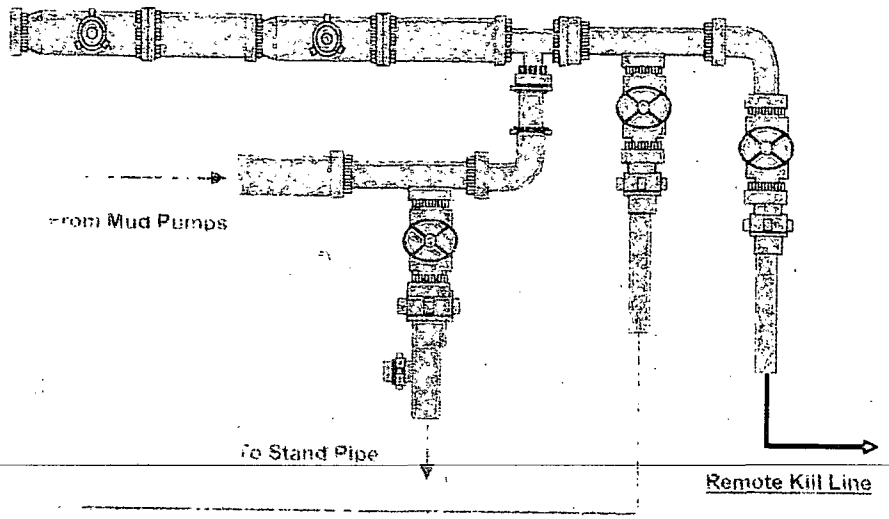
CUSTOMER: OXY-PERMIAN
PROJECT: F4M
DRAWN: DJOHNSON | DATE: 07/14/08 | DWG. NO.: F4M-H-320 | REV: B
SCALE: NTS | SHEET 1 OF 4

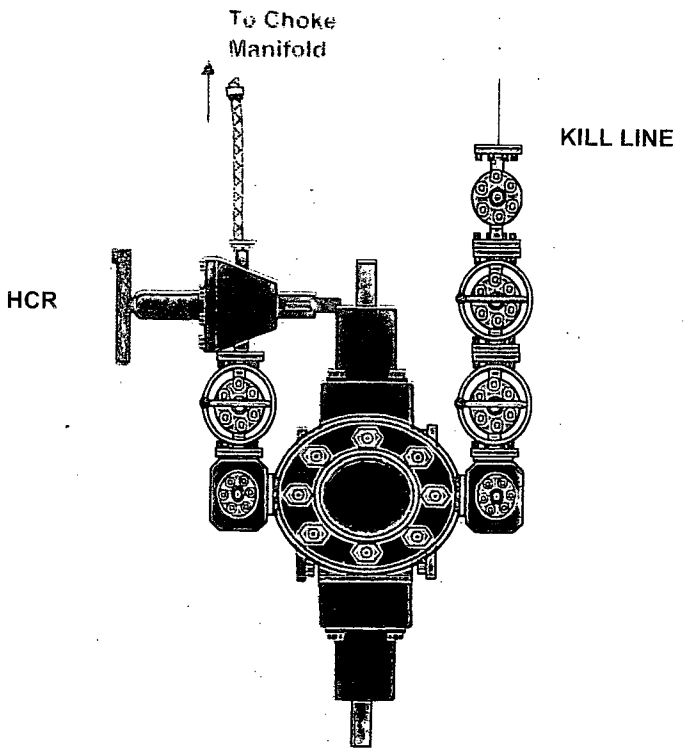
5M CHOKE MANIFOLD CONFIGURATION



5M REMOTE

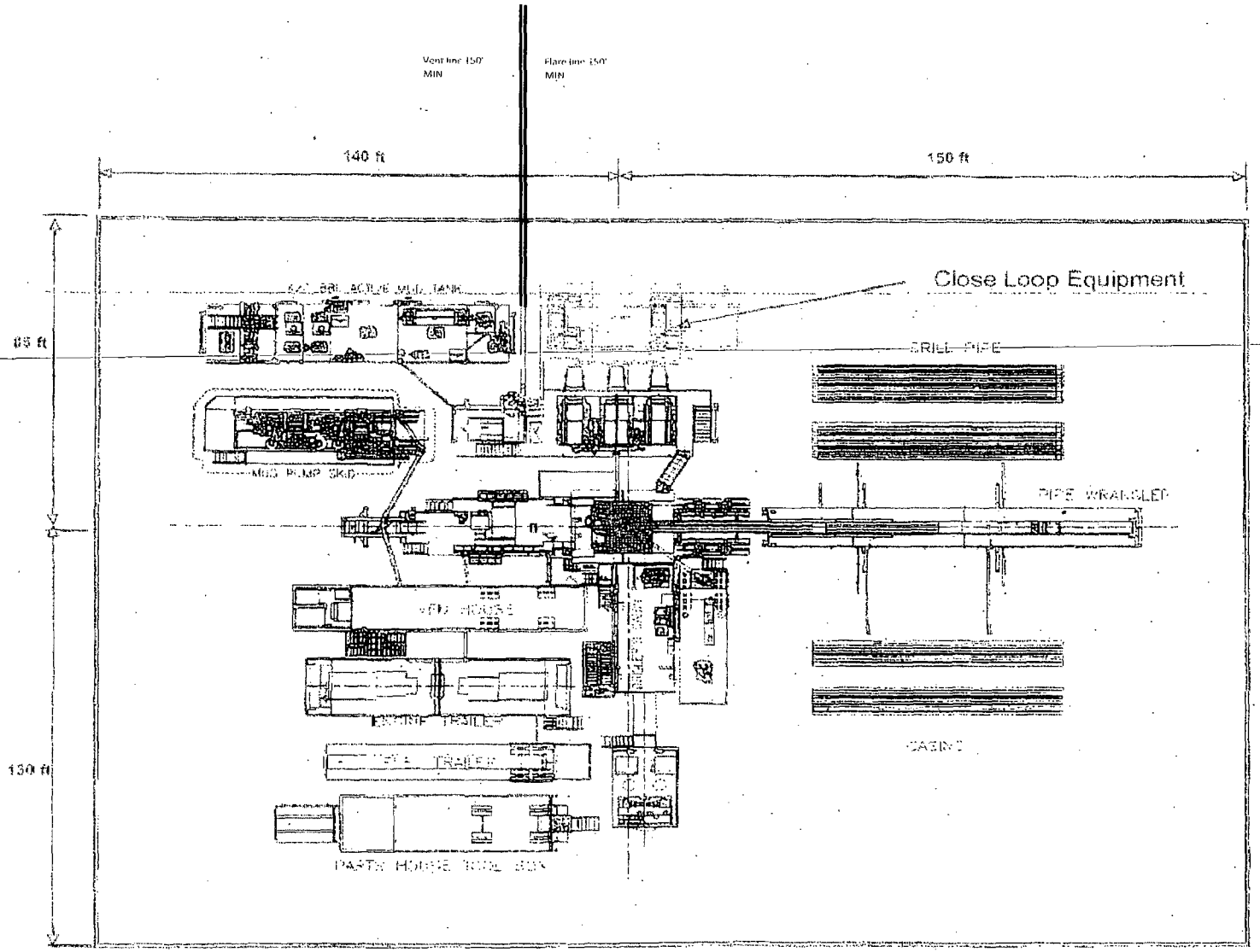
KILL LINE SCHEMATIC

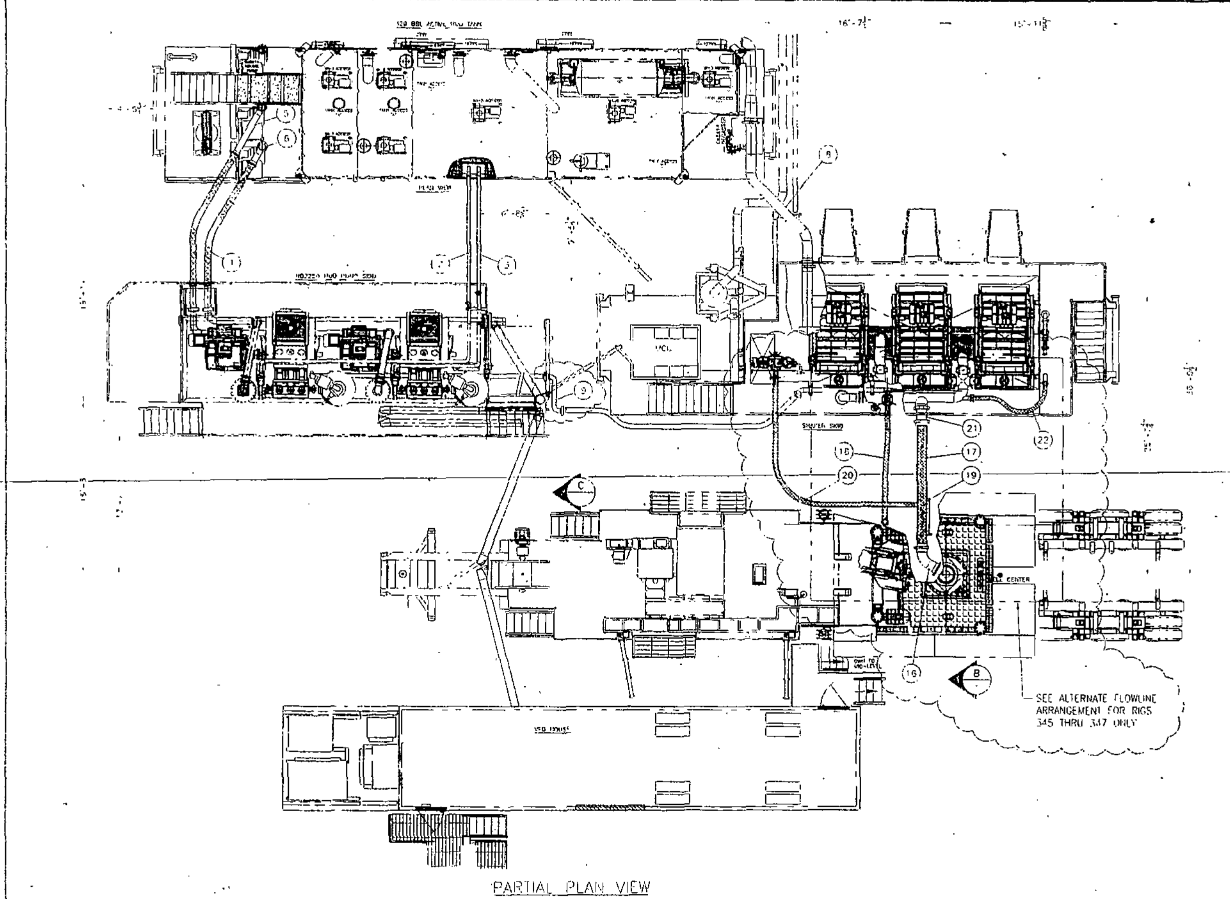




OXY FLEX IV PAD (Closed Loop System)

Revised 09/18/2019

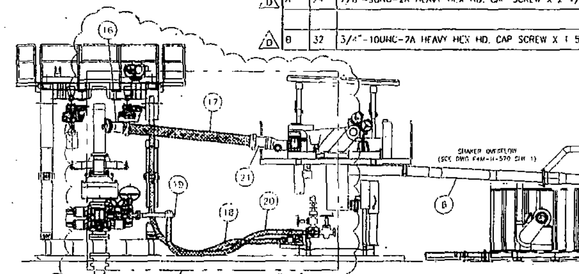




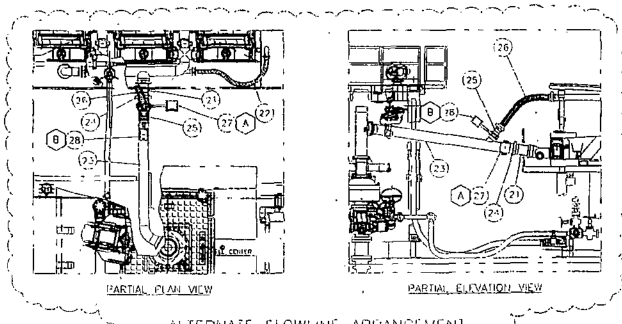
ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WT.
BILL OF MATERIAL				
1	2	LOW PRESSURE SPOOL #1	MK F4M-H-570.01F	239
2	1	POP-OFF/BLEED SPOOL #1	MK F4M-H-570.01A	157
3	1	POP-OFF/BLEED SPOOL #2	MK F4M-H-570.01B	140
4		DELETED		
5	1	LOW PRESSURE SUCTION SPOOL #1	MK F4M-H-570.01D	199
6	1	LOW PRESSURE SUCTION SPOOL #2	MK F4M-H-570.01H	101
7	1	HOSE-HIGH PRESSURE	MK F4M-H-570.01G	276
8	1	OVERFLOW RETURN SPOOL	MK F4M-H-563.05A	678
9	1	MUD PUMP/SHAKER SKID SPOOL	MK F4M-H-570.01E	181
10	22FT	TS 1 1/2x1 1/2x3/16 (A500)		150
11	1	POP-OFF PIPE HANGER SUPPORT	MK F4M-H-570.01C	30
12	1	L3x3x1/4 (1'-6" LG) (A36)		7
13	1	L3x3x1/4 (1'-6" LG) (A36)		7
14	1	PLATE, 1/4" THK, 4x2'-3 1/4" (A36)		8
15	1	L3x3x1/4 (4'-11 3/4" LG) (A36)		25
16	1	SHAKER FLOWLINE	MK F4M-H-562.02A	230
17	1	SHAKER FLOWLINE	MK F4M-H-562.02B	281
18	1	HOSE	MK F4M-H-563.03E	
19	1	SPOOL #1	MK F4M-H-564.02A	182
20	1	HIGH PRESSURE HOSE, 3" I.D. x 29'-0" LG.	PHOENIX BEATTY	
		WITH 3 1/8" - 5M FLANGED ENDS		
21	1	SHAKER FLOWLINE	MK F4M-H-562.02C	73
22	1	SHAKER SPOOL	MK F4M-H-562.03B	177

THESE ITEMS REPLACE ITEMS 16 & 17

ITEM NO.	QUAN	DESCRIPTION	PART NUMBER	WT.
RIGS 345 - 347 ONLY				
BILL OF MATERIAL				
23	1	SHAKER FLOWLINE	MK F4M-H-569-04A	656
24	1	SHAKER FLOWLINE	MK F4M-H-569-04B	118
25	1	SHAKER FLOWLINE	MK F4M-H-569-04C	67
26	1	SHAKER FLOWLINE HOSE	MK F4M-H-569-04D	77
27	1	FABRI - 10" AIR ACTUATED KNIFE GATE VALVE		66
28	1	FABRI - 6" AIR ACTUATED KNIFE GATE VALVE		52
		HARDWARE		
A	24	7/8"-9UNC-2A HEAVY HEX HD. CAP SCREW X 2 1/8" LG.		18
B	32	3/4"-10UNC-2A HEAVY HEX HD. CAP SCREW X 1 5/8" LG.		12



SECTION B-B



ALTERNATE FLOWLINE ARRANGEMENT
(FOR RIGS 345 THRU 347 ONLY)

ISSUED FOR FABRICATION
October-23-2008
DRAFTSMAN ______
ENGINEER ______

REV	DATE	DESCRIPTION	BY
D	10/23/08	[illegible]	CC/MWL
C	09/04/08	MOVE MUD TANK CLOSER TO SHAKER UPDATED PIPING	DRJ
B	08/05/08	ADDED SHT 2 & BOM	DRJ
A	07/17/08	ADDED [illegible] PIPING TO POP-OFF	DRJ

ENGINEERING APPROVAL | DATE

HELMERICH & PAYNE INTERNATIONAL DRILLING CO.

TITLE: MUD SYSTEM INTERCONNECT PIPING ASSEMBLY

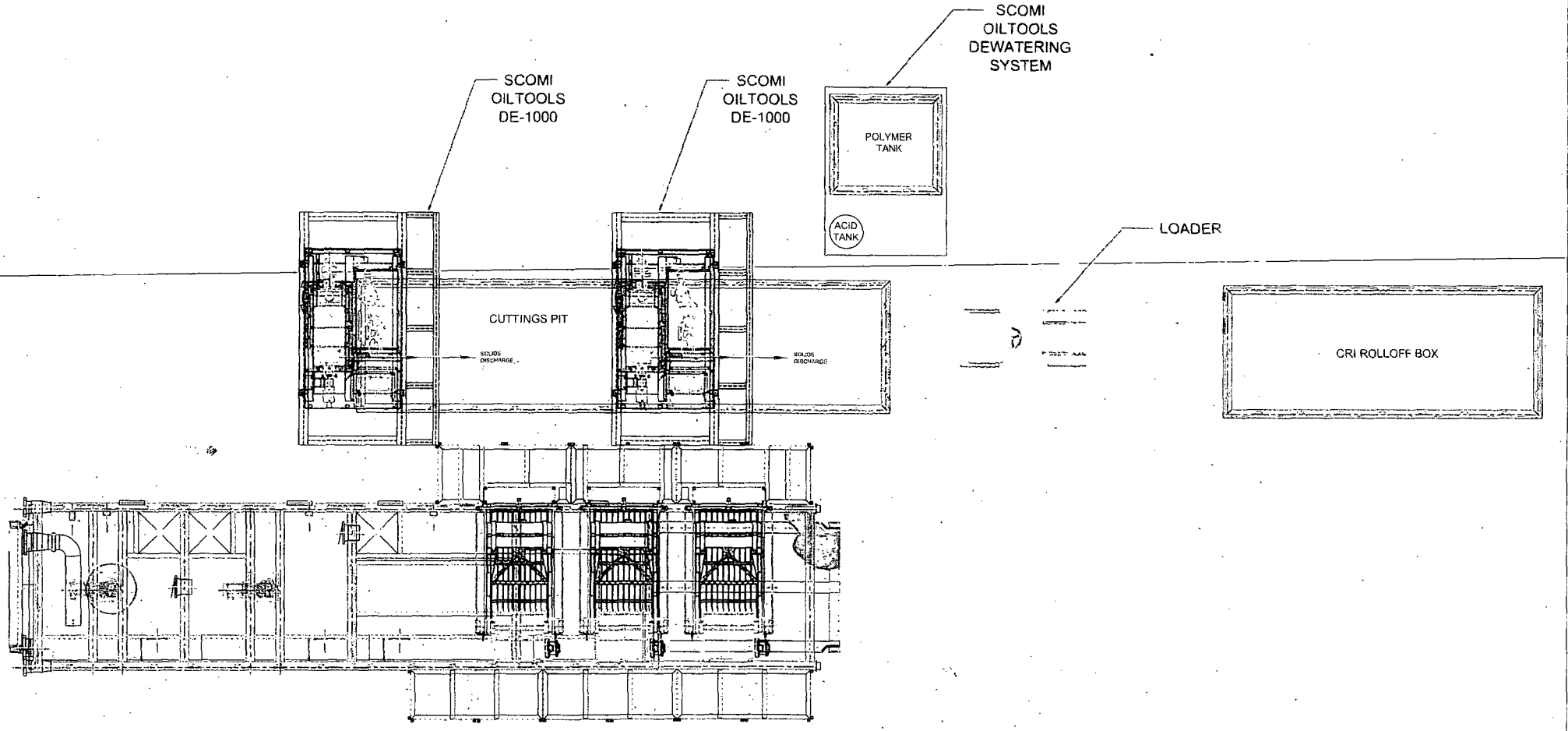
CUSTOMER: OXY PERMIAN

PROJECT: F4M

DRAWN: DJOHNSON | DATE: 07/08/08 | DWG. NO.: F4M-H-568 | REV: D

SCALE: 3/16"=1'-0" | SHEET: 1 OF 2

BILL OF MATERIAL				
ITEM	QTY.	DESCRIPTION	LENGTH	WEIGHT



NO.	REVISIONS	BY	CHK'D	APP'D	DATE

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# & 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
OXY - H&P - FLEX 4 M

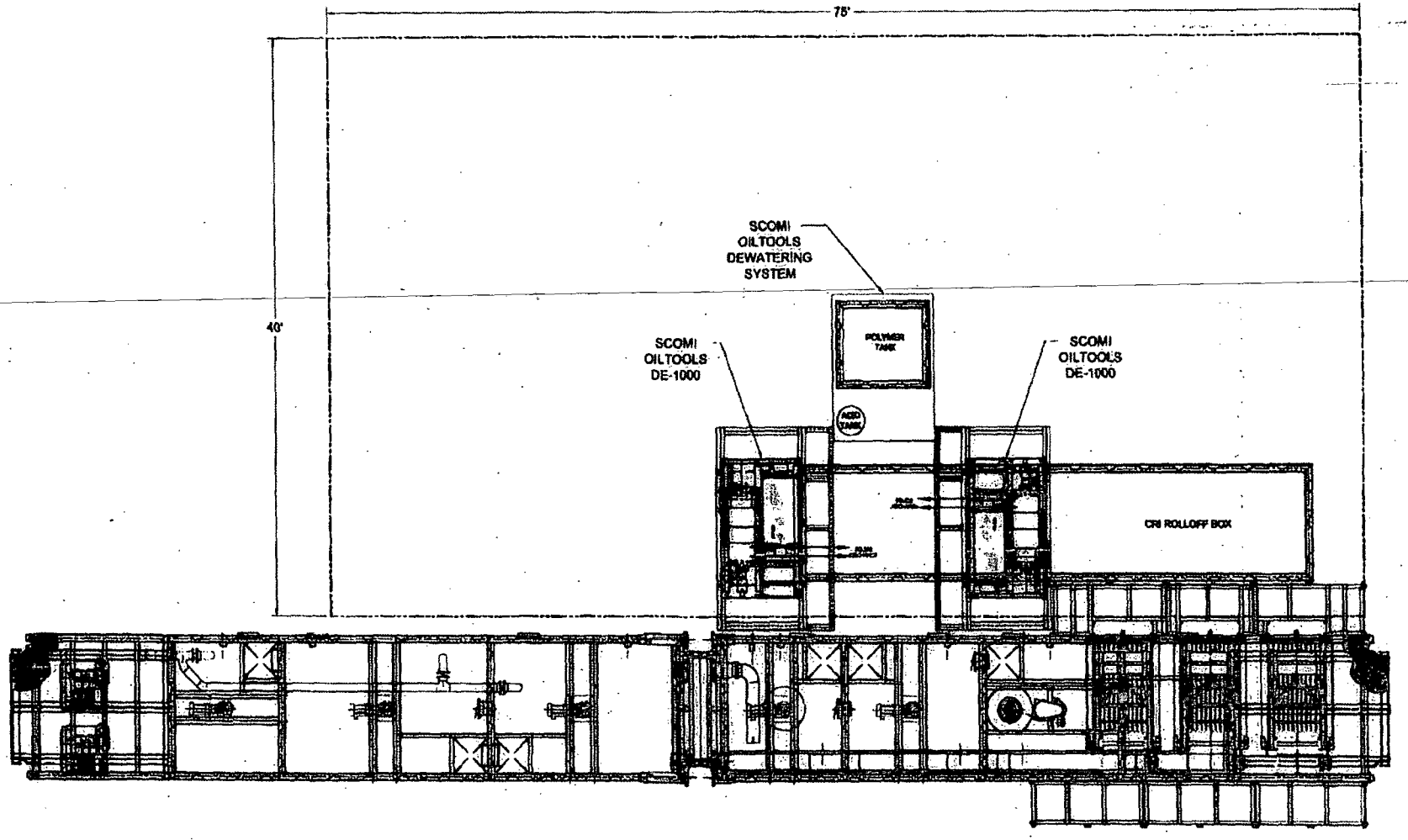
DRAWN BY	DATE	CHECKED BY	DATE
PDL	3/30/09		
APPROVED	DATE	SCALE	ACAD DWG.
		NTS	D

Scomi

521 N. Sam Houston Parkway East, Suite 300.
Houston, Texas 77060
PHONE: (281)-260-9018, FAX: (281)-260-9269

JOB NO.	DRAWING NO.	REV.
	521S-027	

ITEM	QTY.	BILL OF MATERIAL DESCRIPTION	LENGTH	WEIGHT



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

Scomi

521S-014

A

Continental CONTITECH

Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

CERT. N°: 128

PURCHASER:	ContiTech Beattie Co.	P.O. N°:	004721
CONTITECH ORDER N°:	490278	HOSE TYPE: 3" ID	Choke and Kill Hose
HOSE SERIAL N°:	60220	NOMINAL / ACTUAL LENGTH:	7,62 m / 7,64 m

W.P.	34,48	MPa	5000	psi	T.P. 68,9	MPa	10000	psi

Duration: 60 min.

Pressure test with water at ambient temperature

See attachment. (1 page)

↑ 10 mm = 10 Min.

→ 10 mm = 20 MPa

COUPLINGS Type	Serial N°		Quality	Heat N°
3" coupling with	160	159	AISI 4130	Y0515A
4 1/16" Flange end			AISI 4130	31694

ASSET NO. : 66-0606

API Spec 16 C

Temperature rate:"B"

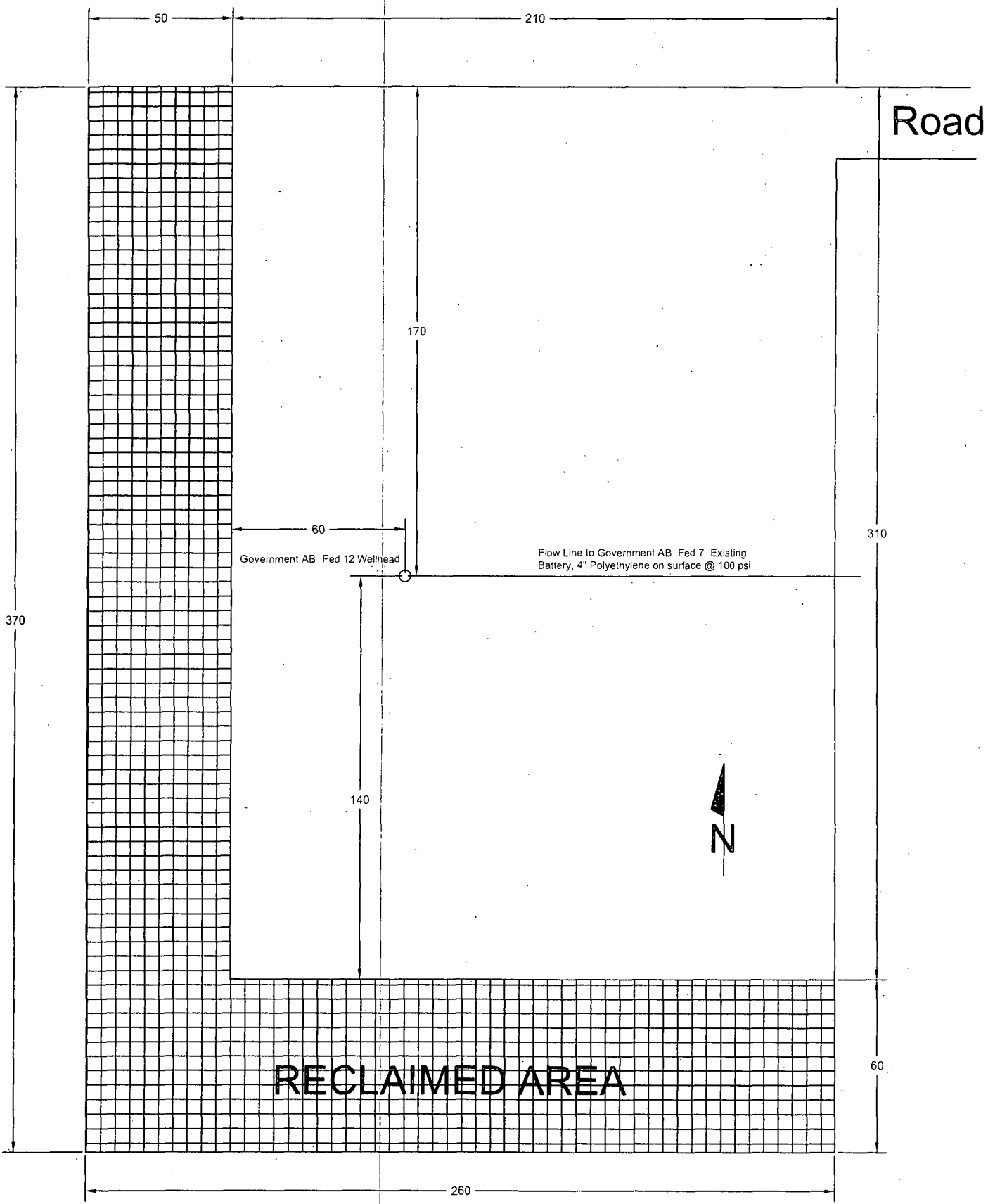
All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

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

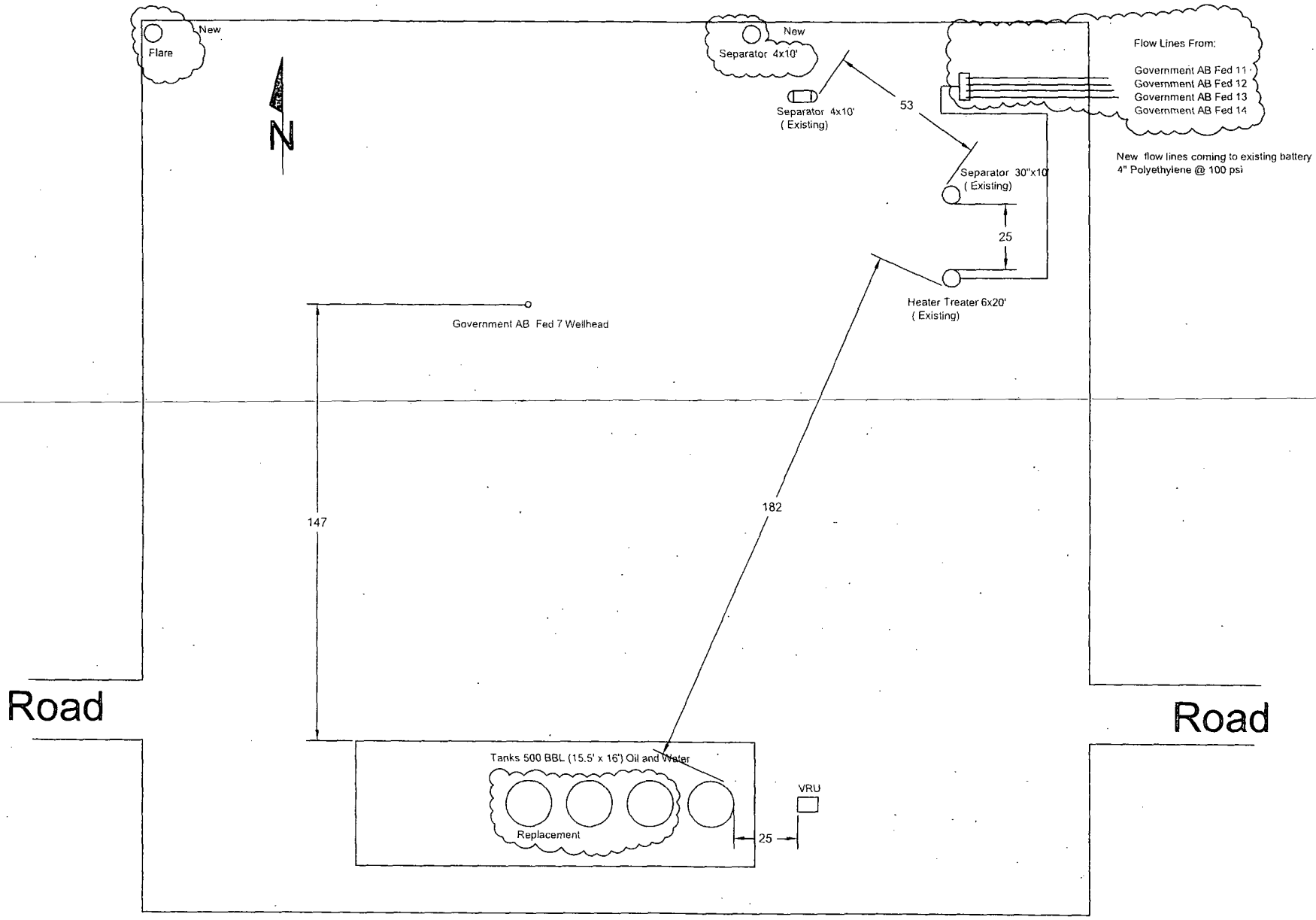
Date:	Inspector	Quality Control
07. February 2011.		ContiTech Rubber Industrial Kft. Quality Control Dept. (1)



Government AB Fed 12 Facilities Layout

All Units in Feet

50



Government AB Fed 7 Existing Facilities

All Units in Feet Unless Noted

50

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA WTP, LP
LEASE NO.:	NM15003
WELL NAME & NO.:	12-GOVERNMENT AB FEDERAL
SURFACE HOLE FOOTAGE:	0990' FNL & 1980' FEL
BOTTOM HOLE FOOTAGE	1930' FNL & 1780' FEL
LOCATION:	Section 10, T. 20 S., R. 28 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.