

OCD Hobbs

HOBBSOCD

ATS-15-221

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 01 2015

RECEIVED

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No. Madera 30 Federal #2H	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No.	
2. Name of Operator OXY USA Inc. 16696		9. API Well No. 30-025- 42835	
3a. Address P.O. Box 50250 Midland, TX 79710		3b. Phone No. (include area code) 432-685-5717	
10. Field and Pool, or Exploratory Jabalina Delaware, Southwest		11. Sec., T. R. M. or Blk. and Survey or Area S - Sec 19 T26S R35E BH - Sec 31 T26S R35E	
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 420 FSL 1570 FWL SESW(N) Sec 19 T26S R35E At proposed prod. zone 200 FSL 1720 FWL SENW(3) Sec 31 T26S R35E (F3)		12. County or Parish Lea	
13. State NM		14. Distance in miles and direction from nearest town or post office* 10 miles southwest from Jal, NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) S-420' BH-200'		16. No. of acres in lease 863.68ac	
17. Spacing Unit dedicated to this well 240ac		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 420'	
19. Proposed Depth 8953'V 16677'M		20. BLM/BIA Bond No. on file NMB000862 ESB000226	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3184.3' GR		22. Approximate date work will start* 05/10/2015	
23. Estimated duration 35 days		24. Attachments	

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

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) David Stewart	Date 11/11/14
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Title
Sr. Regulatory Advisor david_stewart@oxy.com

Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date SEP 28 2015
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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)

Carlsbad-Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

OCT 08 2015

**OXY USA Inc
Madera 30 Federal #2H
APD Drilling Data**

HOBBS OCD

OCT 01 2015

OPERATOR NAME / NUMBER: OXY USA Inc 16696LEASE NAME / NUMBER: Madera 30 Federal #2HFederal Lease No: S-NMNM093293
PA/BH-NMNM062932STATE: NM COUNTY: LeaPOOL NAME/NUMBER: Jabalina Delaware, Southwest 97597SURFACE LOCATION: 420 FSL 1570 FWL SESW(N) Sec 19 T26S R35E
SL: LAT: 32.0225909N LONG:103.4095934W X:786289.69 Y:373168.75 NAD: 27TOP PERFORATION: 335 FNL 1720 FWL NENW(C) Sec 30 T26S R35E
SL: LAT: 32.0205148N LONG:103.4091090W X:786446.28 Y:372414.8 NAD: 27BOTTOM PERFORATION: 335 FSL 1720 FWL SENW(3) Sec 31 T26S R35E
SL: LAT: 32.0010865N LONG:103.4091100W X:786506.41 Y:365347.21 NAD: 27BOTTOM HOLE LOCATION: 200 FSL 1720 FWL SENW(3) Sec 31 T26S R35E
SL: LAT: 32.0007154N LONG:103.4091101W X:786507.56 Y:365212.22 NAD: 27APPROX GR ELEV: 3184.3'EST KB ELEV: 3209.3' (25' KB-GL)**1. GEOLOGIC NAME OF SURFACE FORMATION**

a. Permian

2. ESTIMATED TOPS OF GEOLOGICAL MARKERS & DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS

Formation	TVD - RKB	Expected Fluids
T. Rustler	1056	--
T. Salt	1245	--
T. Delaware / Lamar / B. Anhydrite	5359	Oil/Gas
T. Bell Canyon	5401	Oil/Gas
T. Cherry Canyon	6613	Oil/Gas
T. Brushy Canyon	7842	Oil/Gas
T. Brushy Canyon B	8876	Oil/Gas
Target Brushy Canyon B	8953	Oil/Gas
T. Brushy Canyon A	9049	Oil/Gas

- Fresh water may be present above the Rustler formation. Surface casing will be set below the top of the Rustler to protect any possible fresh water.

GREATEST PROJECTED TD "LATERAL LP": 9282' MD / 8953' TVDGREATEST PROJECTED TD "LATERAL TOE": 16677' MD / 8931' TVDOBJECTIVE: Brushy Canyon B

3. CASING PROGRAM

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

See
CSA

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
14.75	1080 1140	11.75	47	J55	BTC	11.000	New	3070	1510	4.02	5.10	8.34

New Intermediate Casing ran in a 10.625" hole filled with 10.2 ppg mud

See
CSA

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
10.625	5285 5330	8.625	32	J55	BTC	7.921*	New	3930	2530	1.33	1.95	2.05

New Production Casing ran in a 7.875" hole filled with 9.2 ppg mud

Hole Size (in)	Interval (ft)	OD (in)	Wt (ppf)	Grade	Conn	ID (in)	Condition	Burst (psi)	Collapse (psi)	Burst SF	Coll SF	Ten SF
7.875	16677	5.500	20	P110	BTC	4.778	New	10640	7460	1.21	2.81	2.52

*SPECIAL DRIFT TO 7.875"

Casing Design Assumptions:

Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from section TD to surface

CSG Test (Intermediate)

- Internal: Displacement fluid + 70% CSG Burst rating
- External: Pore Pressure from the Intermediate hole TD to Surface CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

CSG Test (Production)

- Internal: Fresh Water Displacement + 80% CSG Burst rating
- External: Pore Pressure from the well TD the Intermediate CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Gas Kick (Surface/Intermediate)

- Internal: Gas Kick based on Pore Pressure or Fracture Gradient @ CSG shoe with a gas 0.115psi/ft Gas gradient to surface while drilling the next hole section (e.g. Gas Kick while drilling the production hole section is a burst load used to design the intermediate CSG)
- External: Pore Pressure from section TD to previous CSG shoe and MW of the drilling mud that was in the hole when the CSG was run to surface

Stimulation (Production)

- Internal: Displacement fluid + Max Frac treating pressure (not to exceed 80% CSG Burst rating)
- External: Pore Pressure from the well TD to the Intermediate CSG shoe and 8.5 ppg MWE to surface

Collapse Loads

Lost Circulation (Surface/Intermediate)

- Internal: Losses experienced while drilling the next hole section (e.g. losses while drilling the production hole section are used as a collapse load to design the intermediate CSG). After losses there will be a column of mud inside the CSG with an equivalent weight to the Pore Pressure of the lost circulation zone
- External: MW of the drilling mud that was in the hole when the CSG was run

Cementing (Surface/Intermediate/Production)

- Internal: Displacement Fluid
- External: Cement Slurries to TOC, MW to surface

Full Evacuation (Production)

- Internal: Atmospheric Pressure
- External: MW of the drilling mud that was in the hole when the CSG was run

Tension Loads

Running CSG (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus either 100 klb over-pull or string weight in air, whichever is less

Green Cement (Surface/Intermediate/Production)

- Axial load of the buoyant weight of the string plus the cement plug bump pressure (Final displacement pressure + 500 psi)

Burst, Collapse and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software.

4. CEMENT PROGRAM

Surface Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' – 680' (125% Excess)	500	680	Premium Plus cement with 1 % Calcium Chloride - Flake (Accelerator)	9.14	13.5	1.73	1013
Tail: 680' – 1080' (125% Excess)	320	400	Premium Plus cement	6.34	14.8	1.34	1416

Intermediate Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 0' – 4785' (125% Excess)	1220	4785	Halliburton Light Premium Plus Cement with 5% Salt (Salt), 0.25 % HR-800 (Retarder)	9.84	12.9	1.85	771
Tail: 4785' – 5385' (125% Excess)	230	600	Premium Plus cement	6.34	14.8	1.33	1779

Production Interval

Interval	Amount sx	Ft of Fill	Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Lead: 4385' – 8380' (100% Excess)	360	3995	TUNED LIGHT (TM) SYSTEM 3 lbm/sk Kol-Seal (Lost Circulation Additive), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive), 0.25 lbm/sk HR-800 (Retarder)	16.05	9.8	3.45	706
Tail: 8380' – 16677' (40% Excess)	1250	8297	Super H Cement, 0.5 % Halad(R)-344 (Low Fluid Loss Control), 0.4 % CFR-3 (Dispersant), 3 lbm/sk Salt (Salt), 0.3 % HR-800 (Retarder), 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive)	8.38	13.2	1.66	615

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

5. DIRECTIONAL PLAN

Please see attached directional plan

6. PRESSURE CONTROL EQUIPMENT

Surface: 0' – 1080' None.

Intermediate and Production: 5385' MD / TVD – 16667' MD / 8931' TVD Intermediate and Production hole will be drilled with a 13-5/8" 10M three ram stack with a 5M annular preventer and a 5M Choke Manifold.

- All BOP's and associated equipment will be tested in accordance with Onshore Order #2 (250/5000 psi on rams for 10 minutes each and 250/3500 psi for 10 minutes for annular preventer, equal to 70% of working pressure) with a third party BOP testing service before drilling out the surface casing shoe. A Multibowl wellhead system will be used in this well therefore the BOPE test will cover the test requirements for the Intermediate and Production sections.
- The Surface and Intermediate casing strings will be tested to 70% of their burst rating for 30 minutes. This will also test the seals of the lock down pins that hold the pack-off in place in the Multibowl wellhead system.

See
CCF

- c. Pipe rams will be function tested every 24 hours and blind rams will be tested each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be accommodated on the drilling spool below the ram-type BOP.
- d. The BOPE test will be repeated within 21 days of the original test, on the first trip, if drilling the intermediate or production section takes more time than planned.
- e. Other accessory BOP equipment will include a floor safety valve, choke lines, and choke manifold having a 5000 psi working pressure rating and tested to 5000 psi.
- f. The Operator also requests a variance to connect the BOP choke outlet to the choke manifold using a co-flex hose manufactured by Contitech Rubber Industrial KFT. It is a 3" ID x 35' flexible hose with a 10,000 psi working pressure. It has been tested to 15,000 psi and is built to API Spec 16C. Once the flex line is installed it will be tied down with safety clamps (certifications attached).
- g. BOP & Choke manifold diagrams attached.

7. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System
0' - 1080' 1140'	8.4-8.8	28 - 38	NC	Fresh Water / Spud Mud
1080' - 5385' 5330'	10.0-10.2	28 - 32	NC	Fresh Water / NaCl Brine
5385' - 16667'	9.2-9.8	28 - 34	NC	Cut Brine / Sweeps

Remarks: Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT

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

9. POTENTIAL HAZARDS:

- a. H₂S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H₂S is encountered the operator will comply with Onshore Order #6.
 - b. No abnormal temperatures or pressures are anticipated. The highest anticipated pressure gradient is **0.46 psi/ft**. Maximum anticipated bottom hole pressure is **between 4000 and 4120 psi**.
-
- c. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

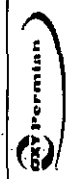
Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 35 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

11. WIRELINE LOGGING / MUD LOGGING / LWD

- a. Mud loggers to be rigged up from surface shoe to TD.
- b. Acquire GR while drilling, from surface shoe to TD.

COMPANY PERSONNEL:

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Mobile Phone</u>
Stephen Bennett	Drilling Engineer	(713)350-4609	(832) 540-0671
Sebastian Millan	Drilling Engineer Supervisor	(713)350-4950	(832) 528-3268
Roger Allen	Drilling Superintendent	(713)215-7617	(281) 682-3919
Oscar Quintero	Drilling Manager	(713)985-6343	(713) 689-4946

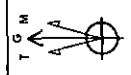


M30F 2H
Lea County, New Mexico
Northing: 373168.75
Easting: 786289.69
Design #2

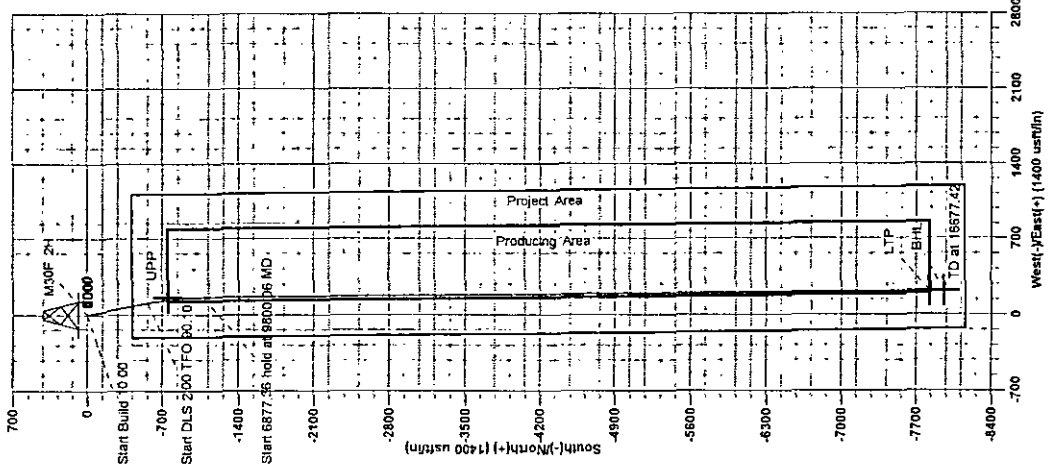


Assumptions to Grid North
True North: -0.49°
Magnetic North: 6.62°
Magnetic Field
Strength: 48185 Gauss
Dip Angle: 59.95°
Date: 08/05/2014
Model: IGRF2010

To convert Magnetic North to Grid, Add 4.82°
To convert True North to Grid, Subtract 6.49°



KB @ 3209.30 uft
Gr @ 3184.30



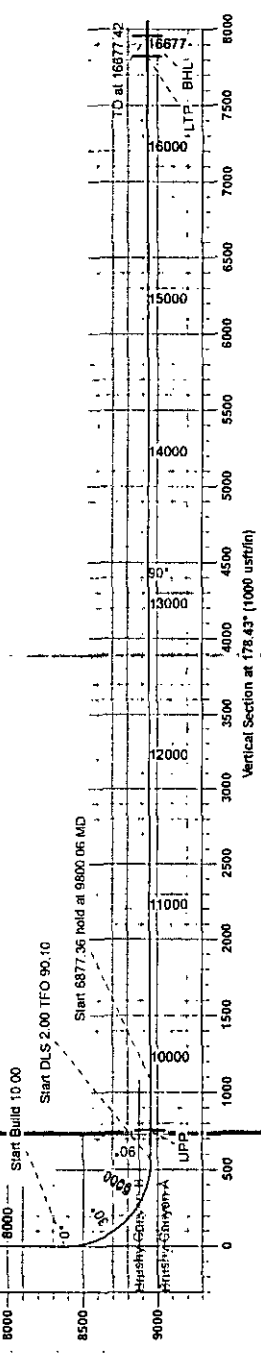
WELL DETAILS			
M30F 2H		M30F 2H	
Ground Level		Easting	
Northing		Longitude	
373168.75		-103.40550	
Easting		Latitude	
786289.69		32.02259	

SECTION DETAILS			
MD	Inc	AS	TVD
0.00	0.00	0.00	0.00
8380.05	0.00	0.00	8380.05
9281.95	0.00	0.00	8953.00
9500.00	0.00	0.00	8953.00
10000.00	0.00	0.00	8953.00
10577.42	0.00	0.00	8953.00

DESIGN TARGET DETAILS			
Name	TVD	N/S	E/W
M30F 2H LTP	8528.00	-7821.54	216.72
M30F 2H BHL	8931.00	-7959.53	217.87
M30F 2H UPP	8953.00	-7959.53	156.59

SITE DETAILS:
Lea County, New Mexico
Site Center Northing: 373168.75
Easting: 786289.69
Positional Uncertainty: 0.00
Coordinate System: NAD 1983
Local North: Grid

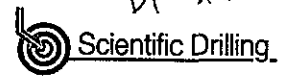
PROJECT DETAILS:
Lea County, New Mexico
Geologic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



DP-1



Scientific Drilling, Int'l
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well M30F 2H
Company:	OXY	TVD Reference:	KB @ 3209.30usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3209.30usft
Site:	Madera 30 Federal 2H	North Reference:	Grid
Well:	M30F 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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

Site	Madera 30 Federal 2H		
Site Position:		Northing:	373,168.75 usft
From:	Map	Easting:	786,289.69 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.02259
		Longitude:	-103.40960
		Grid Convergence:	0.49 °

Well	M30F 2H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.02259
		Longitude:	-103.40960
		Ground Level:	3,184.30 usft

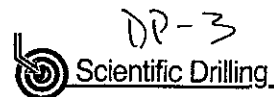
Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	08/05/14	7.11
			Dip Angle
			(°)
			59.95
			Field Strength
			(nT)
			48,200

Design	Design #2		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			178.43

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,380.05	0.00	0.00	8,380.05	0.00	0.00	0.00	0.00	0.00	0.00	
9,281.95	90.19	169.15	8,953.00	-564.58	108.21	10.00	10.00	0.00	169.15	
9,800.06	90.17	179.51	8,951.37	-1,079.45	159.32	2.00	0.00	2.00	90.10	
16,677.42	90.17	179.51	8,931.00	-7,956.53	217.87	0.00	0.00	0.00	0.00	M30F 2H BHL



Scientific Drilling, Int'l
Planning Report



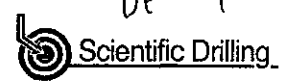
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well M30F 2H
Company:	OXY	TVD Reference:	KB @ 3209.30usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3209.30usft
Site:	Madera 30 Federal 2H	North Reference:	Grid
Well:	M30F 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,056.00	0.00	0.00	1,056.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,245.00	0.00	0.00	1,245.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado (Top of Salt)									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00



Scientific Drilling, Int'l
Planning Report



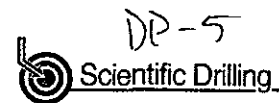
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well M30F 2H
Company:	OXY	TVD Reference:	KB @ 3209.30usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3209.30usft
Site:	Madera 30 Federal 2H	North Reference:	Grid
Well:	M30F 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,049.00	0.00	0.00	5,049.00	0.00	0.00	0.00	0.00	0.00	0.00
Castile (Base of Salt)									
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,359.00	0.00	0.00	5,359.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar									
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,401.00	0.00	0.00	5,401.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,613.00	0.00	0.00	6,613.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,842.00	0.00	0.00	7,842.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,380.05	0.00	0.00	8,380.05	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	2.00	169.15	8,400.00	-0.34	0.07	0.34	10.00	10.00	0.00
8,450.00	7.00	169.15	8,449.83	-4.19	0.80	4.21	10.00	10.00	0.00
8,500.00	12.00	169.15	8,499.13	-12.29	2.35	12.35	10.00	10.00	0.00
8,550.00	17.00	169.15	8,547.52	-24.57	4.71	24.69	10.00	10.00	0.00
8,600.00	22.00	169.15	8,594.64	-40.96	7.85	41.16	10.00	10.00	0.00
8,650.00	27.00	169.15	8,640.12	-61.31	11.75	61.61	10.00	10.00	0.00
8,700.00	32.00	169.15	8,683.63	-85.48	16.38	85.90	10.00	10.00	0.00
8,750.00	37.00	169.15	8,724.82	-113.28	21.71	113.83	10.00	10.00	0.00



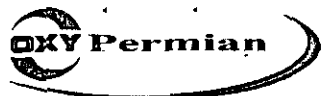
Scientific Drilling, Int'l
Planning Report



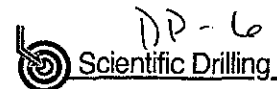
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well M30F 2H
Company:	OXY	TVD Reference:	KB @ 3209.30usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3209.30usft
Site:	Madera 30 Federal 2H	North Reference:	Grid
Well:	M30F 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.00	42.00	169.15	8,763.40	-144.50	27.70	145.21	10.00	10.00	0.00
8,850.00	47.00	169.15	8,799.05	-178.91	34.29	179.78	10.00	10.00	0.00
8,900.00	52.00	169.15	8,831.52	-216.23	41.44	217.29	10.00	10.00	0.00
8,950.00	57.00	169.15	8,860.55	-256.20	49.10	257.45	10.00	10.00	0.00
8,979.56	59.95	169.15	8,876.00	-280.94	53.85	282.31	10.00	10.00	0.00
Brushy Canyon B									
9,000.00	62.00	169.15	8,885.92	-298.49	57.21	299.95	10.00	10.00	0.00
9,050.00	67.00	169.15	8,907.44	-342.80	65.70	344.47	10.00	10.00	0.00
9,100.00	72.00	169.15	8,924.95	-388.78	74.52	390.67	10.00	10.00	0.00
9,150.00	77.00	169.15	8,938.31	-436.08	83.58	438.21	10.00	10.00	0.00
9,200.00	82.00	169.15	8,947.43	-484.35	92.83	486.71	10.00	10.00	0.00
9,250.00	87.00	169.15	8,952.22	-533.22	102.20	535.81	10.00	10.00	0.00
9,281.95	90.19	169.15	8,953.00	-564.58	108.21	567.33	10.00	10.00	0.00
9,300.00	90.19	169.51	8,952.95	-582.32	111.55	585.15	2.00	0.00	2.00
9,400.00	90.19	171.51	8,952.62	-680.95	128.04	684.19	2.00	0.00	2.00
9,500.00	90.18	173.51	8,952.30	-780.09	141.07	783.66	2.00	0.00	2.00
9,600.00	90.18	175.51	8,951.98	-879.62	150.63	883.42	2.00	0.00	2.00
9,700.00	90.17	177.51	8,951.67	-979.43	156.72	983.35	2.00	0.00	2.00
9,800.06	90.17	179.51	8,951.37	-1,079.45	159.32	1,083.41	2.00	0.00	2.00
9,900.00	90.17	179.51	8,951.08	-1,179.39	160.17	1,183.33	0.00	0.00	0.00
10,000.00	90.17	179.51	8,950.78	-1,279.38	161.02	1,283.31	0.00	0.00	0.00
10,100.00	90.17	179.51	8,950.49	-1,379.38	161.87	1,383.29	0.00	0.00	0.00
10,200.00	90.17	179.51	8,950.19	-1,479.38	162.72	1,483.28	0.00	0.00	0.00
10,300.00	90.17	179.51	8,949.89	-1,579.37	163.58	1,583.26	0.00	0.00	0.00
10,400.00	90.17	179.51	8,949.60	-1,679.37	164.43	1,683.24	0.00	0.00	0.00
10,500.00	90.17	179.51	8,949.30	-1,779.36	165.28	1,783.22	0.00	0.00	0.00
10,600.00	90.17	179.51	8,949.00	-1,879.36	166.13	1,883.20	0.00	0.00	0.00
10,700.00	90.17	179.51	8,948.71	-1,979.36	166.98	1,983.18	0.00	0.00	0.00
10,800.00	90.17	179.51	8,948.41	-2,079.35	167.83	2,083.17	0.00	0.00	0.00
10,900.00	90.17	179.51	8,948.12	-2,179.35	168.68	2,183.15	0.00	0.00	0.00
11,000.00	90.17	179.51	8,947.82	-2,279.34	169.53	2,283.13	0.00	0.00	0.00
11,100.00	90.17	179.51	8,947.52	-2,379.34	170.39	2,383.11	0.00	0.00	0.00
11,200.00	90.17	179.51	8,947.23	-2,479.34	171.24	2,483.09	0.00	0.00	0.00
11,300.00	90.17	179.51	8,946.93	-2,579.33	172.09	2,583.08	0.00	0.00	0.00
11,400.00	90.17	179.51	8,946.63	-2,679.33	172.94	2,683.06	0.00	0.00	0.00
11,500.00	90.17	179.51	8,946.34	-2,779.32	173.79	2,783.04	0.00	0.00	0.00
11,600.00	90.17	179.51	8,946.04	-2,879.32	174.64	2,883.02	0.00	0.00	0.00
11,700.00	90.17	179.51	8,945.75	-2,979.32	175.49	2,983.00	0.00	0.00	0.00
11,800.00	90.17	179.51	8,945.45	-3,079.31	176.35	3,082.98	0.00	0.00	0.00
11,900.00	90.17	179.51	8,945.15	-3,179.31	177.20	3,182.97	0.00	0.00	0.00
12,000.00	90.17	179.51	8,944.86	-3,279.30	178.05	3,282.95	0.00	0.00	0.00
12,100.00	90.17	179.51	8,944.56	-3,379.30	178.90	3,382.93	0.00	0.00	0.00
12,200.00	90.17	179.51	8,944.26	-3,479.30	179.75	3,482.91	0.00	0.00	0.00
12,300.00	90.17	179.51	8,943.97	-3,579.29	180.60	3,582.89	0.00	0.00	0.00
12,400.00	90.17	179.51	8,943.67	-3,679.29	181.45	3,682.88	0.00	0.00	0.00
12,500.00	90.17	179.51	8,943.38	-3,779.28	182.31	3,782.86	0.00	0.00	0.00
12,600.00	90.17	179.51	8,943.08	-3,879.28	183.16	3,882.84	0.00	0.00	0.00
12,700.00	90.17	179.51	8,942.78	-3,979.27	184.01	3,982.82	0.00	0.00	0.00
12,800.00	90.17	179.51	8,942.49	-4,079.27	184.86	4,082.80	0.00	0.00	0.00
12,900.00	90.17	179.51	8,942.19	-4,179.27	185.71	4,182.78	0.00	0.00	0.00
13,000.00	90.17	179.51	8,941.89	-4,279.26	186.56	4,282.77	0.00	0.00	0.00
13,100.00	90.17	179.51	8,941.60	-4,379.26	187.41	4,382.75	0.00	0.00	0.00
13,200.00	90.17	179.51	8,941.30	-4,479.25	188.26	4,482.73	0.00	0.00	0.00
13,300.00	90.17	179.51	8,941.01	-4,579.25	189.12	4,582.71	0.00	0.00	0.00



Scientific Drilling, Int'l
Planning Report



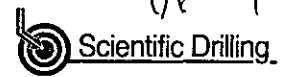
Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well M30F 2H
Company:	OXY	TVD Reference:	KB @ 3209.30usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3209.30usft
Site:	Madera 30 Federal 2H	North Reference:	Grid
Well:	M30F 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,400.00	90.17	179.51	8,940.71	-4,679.25	189.97	4,682.69	0.00	0.00	0.00	
13,500.00	90.17	179.51	8,940.41	-4,779.24	190.82	4,782.67	0.00	0.00	0.00	
13,600.00	90.17	179.51	8,940.12	-4,879.24	191.67	4,882.66	0.00	0.00	0.00	
13,700.00	90.17	179.51	8,939.82	-4,979.23	192.52	4,982.64	0.00	0.00	0.00	
13,800.00	90.17	179.51	8,939.52	-5,079.23	193.37	5,082.62	0.00	0.00	0.00	
13,900.00	90.17	179.51	8,939.23	-5,179.23	194.22	5,182.60	0.00	0.00	0.00	
14,000.00	90.17	179.51	8,938.93	-5,279.22	195.08	5,282.58	0.00	0.00	0.00	
14,100.00	90.17	179.51	8,938.64	-5,379.22	195.93	5,382.57	0.00	0.00	0.00	
14,200.00	90.17	179.51	8,938.34	-5,479.21	196.78	5,482.55	0.00	0.00	0.00	
14,300.00	90.17	179.51	8,938.04	-5,579.21	197.63	5,582.53	0.00	0.00	0.00	
14,400.00	90.17	179.51	8,937.75	-5,679.21	198.48	5,682.51	0.00	0.00	0.00	
14,500.00	90.17	179.51	8,937.45	-5,779.20	199.33	5,782.49	0.00	0.00	0.00	
14,600.00	90.17	179.51	8,937.15	-5,879.20	200.18	5,882.47	0.00	0.00	0.00	
14,700.00	90.17	179.51	8,936.86	-5,979.19	201.04	5,982.46	0.00	0.00	0.00	
14,800.00	90.17	179.51	8,936.56	-6,079.19	201.89	6,082.44	0.00	0.00	0.00	
14,900.00	90.17	179.51	8,936.27	-6,179.19	202.74	6,182.42	0.00	0.00	0.00	
15,000.00	90.17	179.51	8,935.97	-6,279.18	203.59	6,282.40	0.00	0.00	0.00	
15,100.00	90.17	179.51	8,935.67	-6,379.18	204.44	6,382.38	0.00	0.00	0.00	
15,200.00	90.17	179.51	8,935.38	-6,479.17	205.29	6,482.36	0.00	0.00	0.00	
15,300.00	90.17	179.51	8,935.08	-6,579.17	206.14	6,582.35	0.00	0.00	0.00	
15,400.00	90.17	179.51	8,934.78	-6,679.17	206.99	6,682.33	0.00	0.00	0.00	
15,500.00	90.17	179.51	8,934.49	-6,779.16	207.85	6,782.31	0.00	0.00	0.00	
15,600.00	90.17	179.51	8,934.19	-6,879.16	208.70	6,882.29	0.00	0.00	0.00	
15,700.00	90.17	179.51	8,933.90	-6,979.15	209.55	6,982.27	0.00	0.00	0.00	
15,800.00	90.17	179.51	8,933.60	-7,079.15	210.40	7,082.26	0.00	0.00	0.00	
15,900.00	90.17	179.51	8,933.30	-7,179.14	211.25	7,182.24	0.00	0.00	0.00	
16,000.00	90.17	179.51	8,933.01	-7,279.14	212.10	7,282.22	0.00	0.00	0.00	
16,100.00	90.17	179.51	8,932.71	-7,379.14	212.95	7,382.20	0.00	0.00	0.00	
16,200.00	90.17	179.51	8,932.41	-7,479.13	213.81	7,482.18	0.00	0.00	0.00	
16,300.00	90.17	179.51	8,932.12	-7,579.13	214.66	7,582.16	0.00	0.00	0.00	
16,400.00	90.17	179.51	8,931.82	-7,679.12	215.51	7,682.15	0.00	0.00	0.00	
16,500.00	90.17	179.51	8,931.53	-7,779.12	216.36	7,782.13	0.00	0.00	0.00	
16,600.00	90.17	179.51	8,931.23	-7,879.12	217.21	7,882.11	0.00	0.00	0.00	
16,677.42	90.17	179.51	8,931.00	-7,956.53	217.87	7,959.51	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
M30F 2H LTP	0.00	0.00	8,928.00	-7,821.54	216.72	365,347.21	786,506.41	32.00109	-103.40911
- plan misses target center by 3.40usft at 16542.43usft MD (8931.40 TVD, -7821.55 N, 216.72 E)									
- Point									
M30F 2H BHL	0.00	0.00	8,931.00	-7,956.53	217.87	365,212.22	786,507.56	32.00072	-103.40911
- plan hits target center									
- Point									
M30F 2H UPP	0.00	0.00	8,953.00	-753.95	156.59	372,414.80	786,446.28	32.02052	-103.40911
- plan misses target center by 18.49usft at 9476.11usft MD (8952.37 TVD, -756.36 N, 138.27 E)									
- Point									

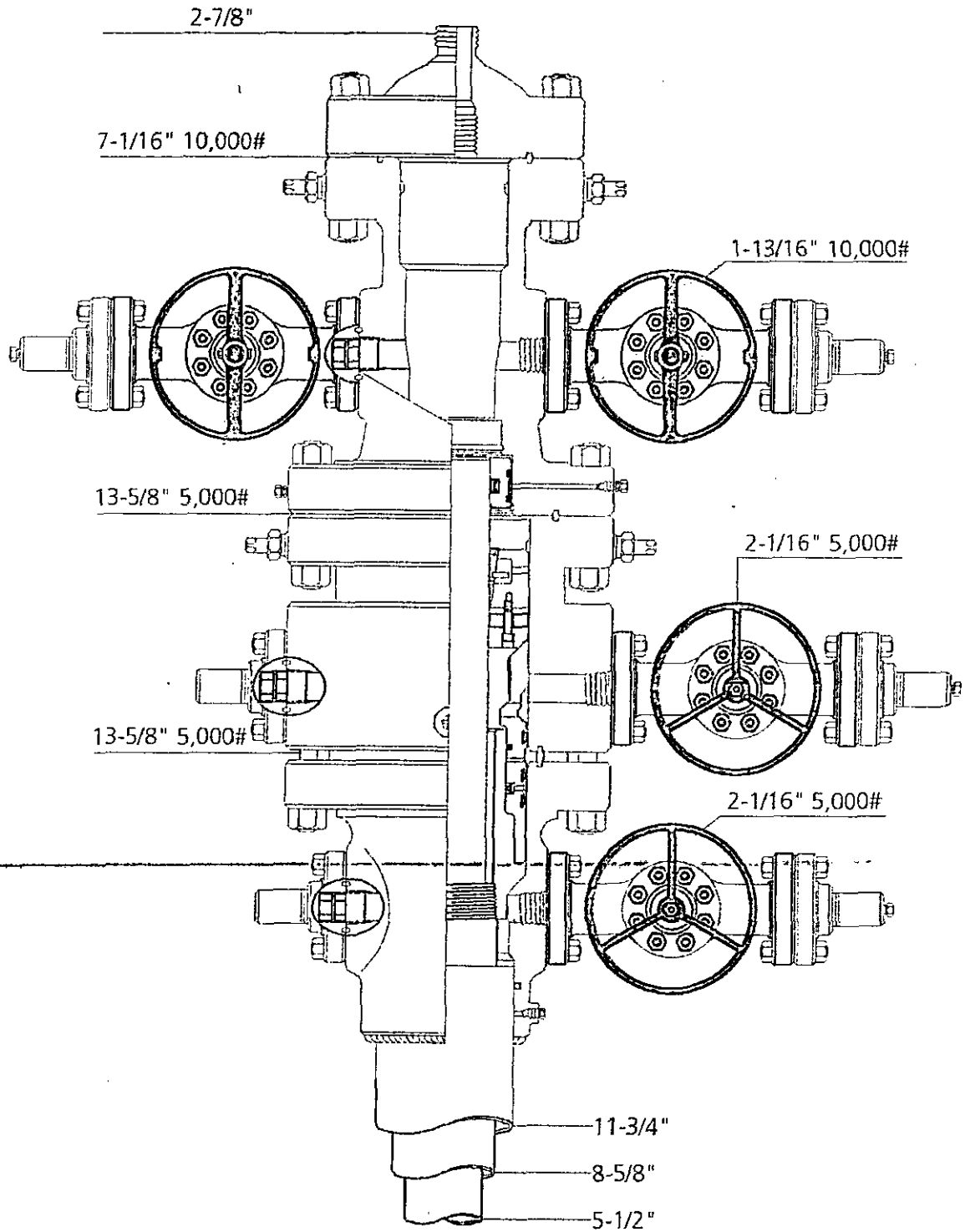


Scientific Drilling, Int'l
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well M30F 2H
Company:	OXY	TVD Reference:	KB @ 3209.30usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3209.30usft
Site:	Madera 30 Federal 2H	North Reference:	Grid
Well:	M30F 2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,056.00	-2,153.30	Rustler		0.00	
1,245.00	-1,964.30	Salado (Top of Salt)		0.00	
2,210.30	0.00	Brushy Canyon A		0.00	
5,049.00	1,839.70	Castile (Base of Salt)		0.00	
5,359.00	2,149.70	Lamar		0.00	
5,401.00	2,191.70	Bell Canyon		0.00	
6,613.00	3,403.70	Cherry Canyon		0.00	
7,842.00	4,632.70	Brushy Canyon		0.00	
8,979.56	5,666.70	Brushy Canyon B		0.00	



Permian Basin
MBS



Jeanette

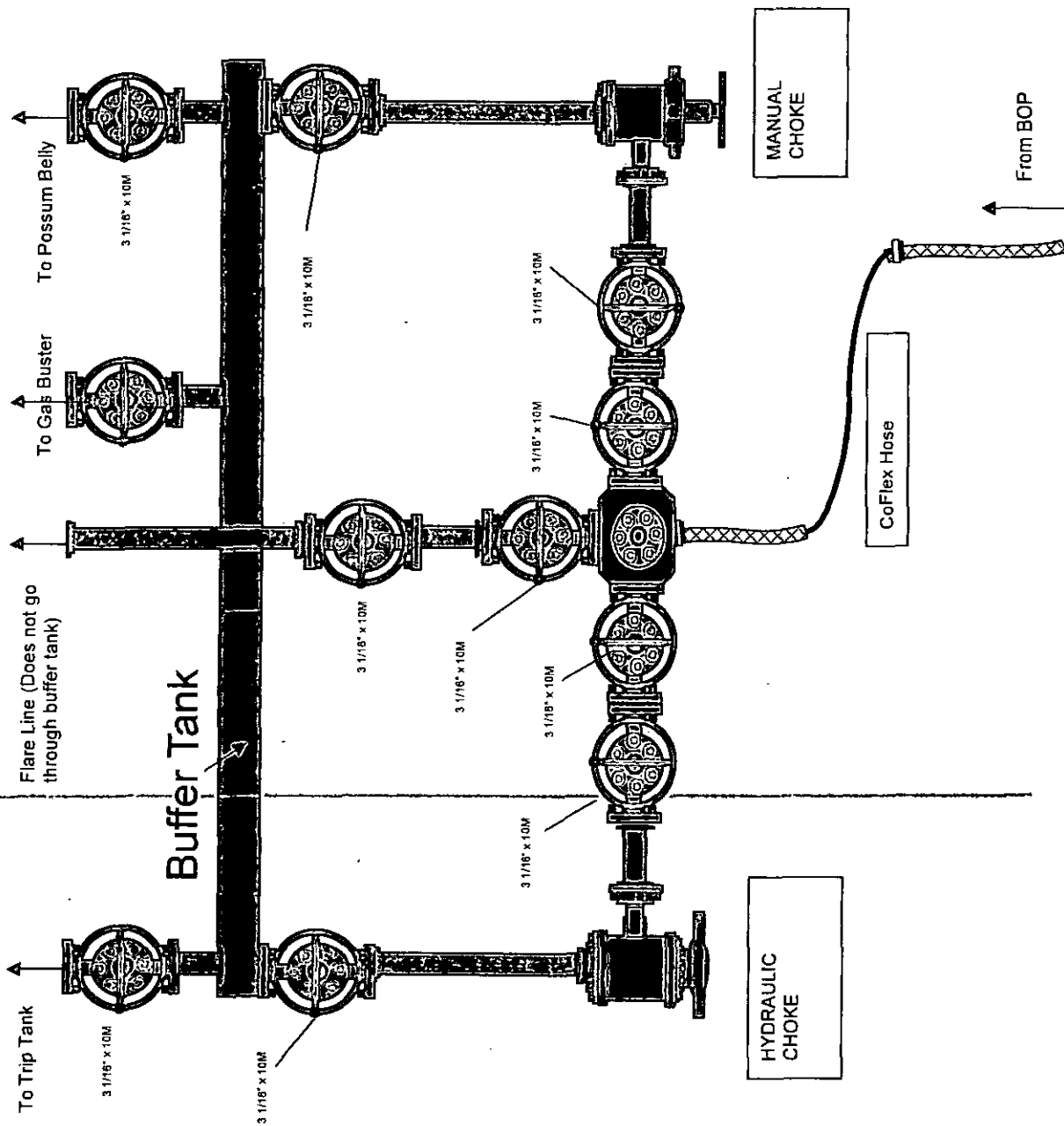
1-31-13

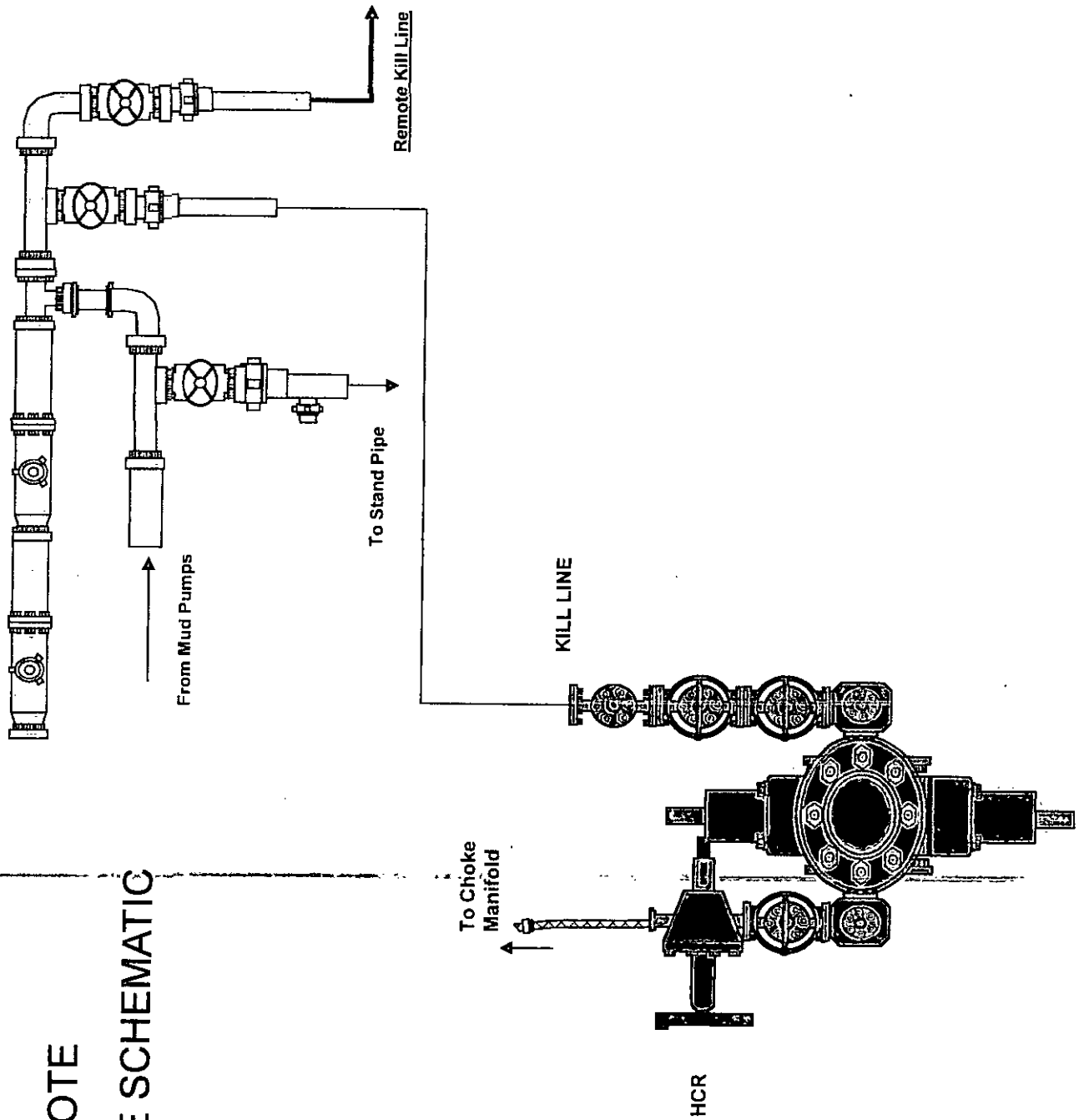
Working Pressure

#

21073221

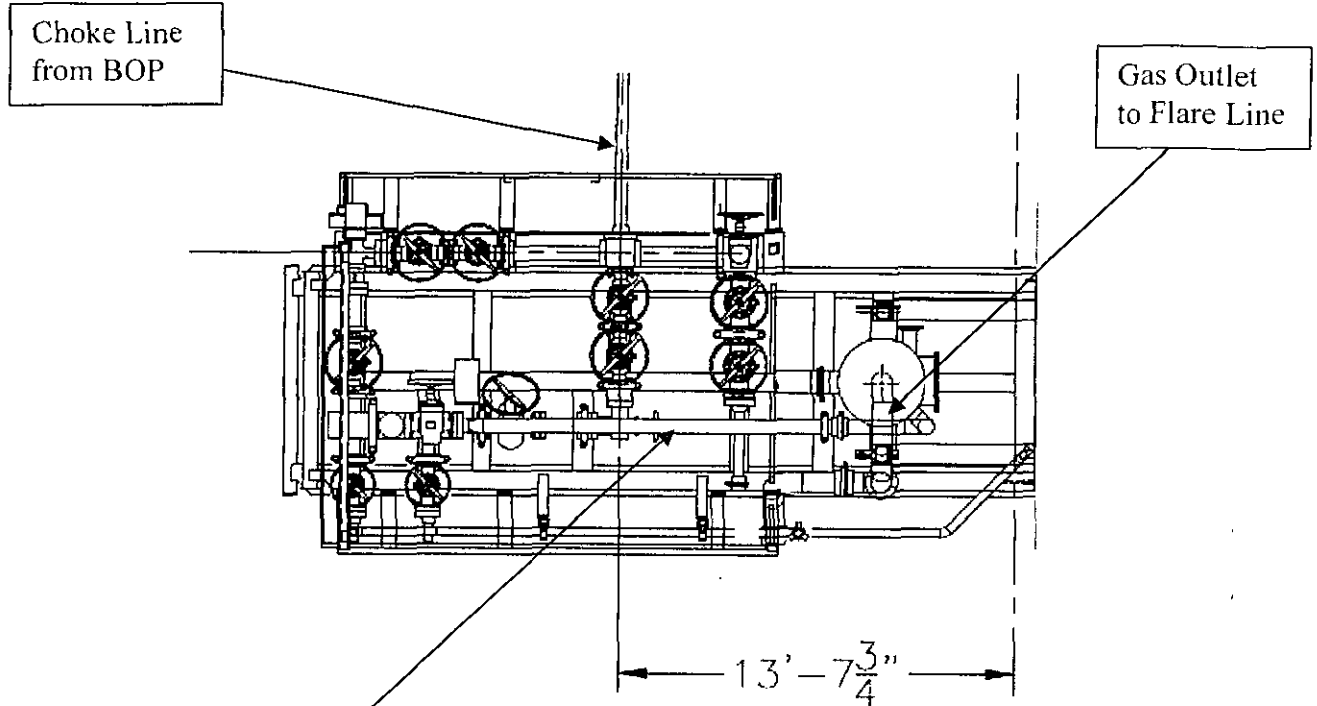
FLEX3 STD CHOKE MANIFOLD (COMPREHENSIVE)



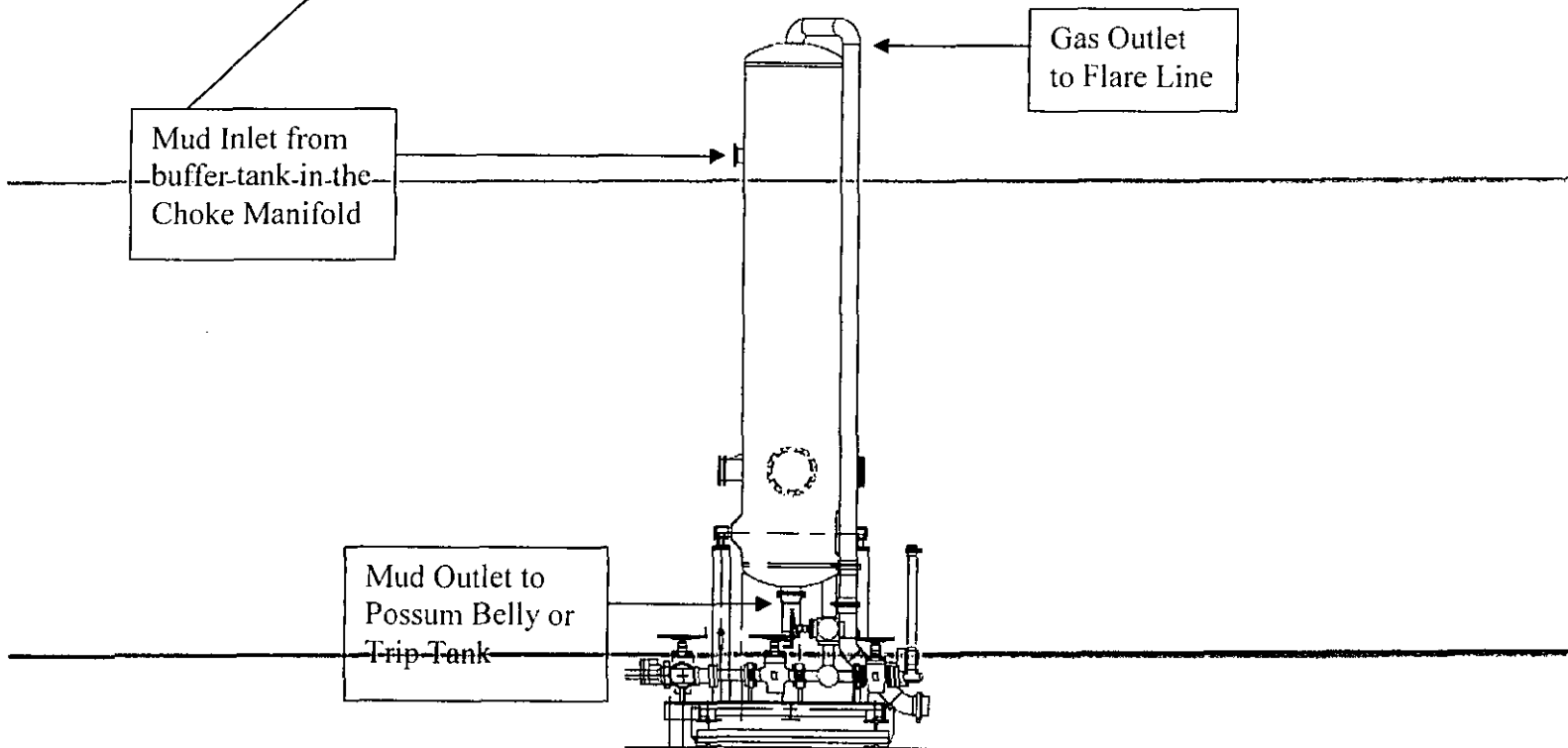


10M REMOTE
KILL LINE SCHEMATIC

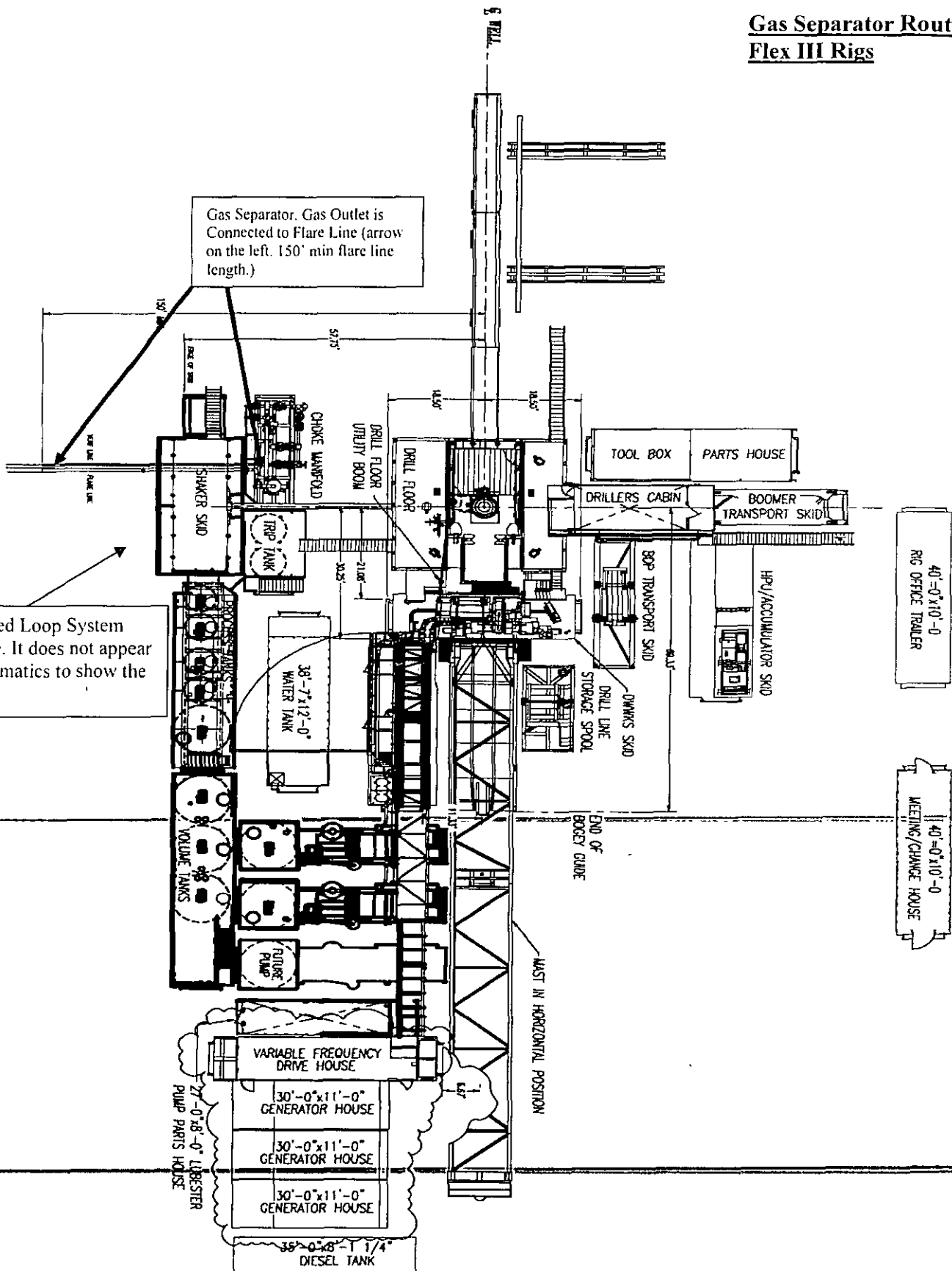
Choke Manifold – Gas Separator (Top View)



Choke Manifold – Gas Separator (Side View)



Gas Separator Routing Flex III Rigs



Note: Closed Loop System placed here. It does not appear on the schematics to show the flare line.



Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 746	
PURCHASER: Phoenix Beattie Co.			P.O. N°: 002491		
CONTITECH ORDER N°: 412638		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 52777		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 ~ min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS					
Type	Serial N°		Quality	Heat N°	
3" coupling with 4 1/16" Flange end	917	913	AISI 4130	T7998A	
			AISI 4130	26984	
INFOCHIP INSTALLED				API Spec 16 C Temperature rate: "B"	
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
Date:	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 Brittmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: sales@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

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

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

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP10CK3A-35-4F1 3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 68X Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 68X Flange c/w BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1	1	0
2	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

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



Phoenix Beattie Corp

11535 Brittonmoore Park Drive
Houston, TX 77041
Tel: (832) 327-0141
Fax: (832) 327-0148
E-mail: sa11@phoenixbeattie.com
www.phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L DRILLING CO 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

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

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	00CERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	00CERT-LOAD LOAD TEST CERTIFICATES	1	1	0
7	00FREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE "PURCHASE ORDER," "RIG NUMBER" TO ENSURE PROPER PAYMENT	1	1	0

Phoenix Beattie Inspection Signature :

Received In Good Condition : Signature

Print Name

Date

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

Material Identification Certificate

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

05/23/08

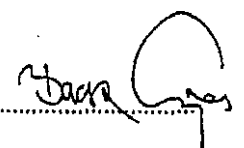
CERTIFICATE OF CONFORMITY

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

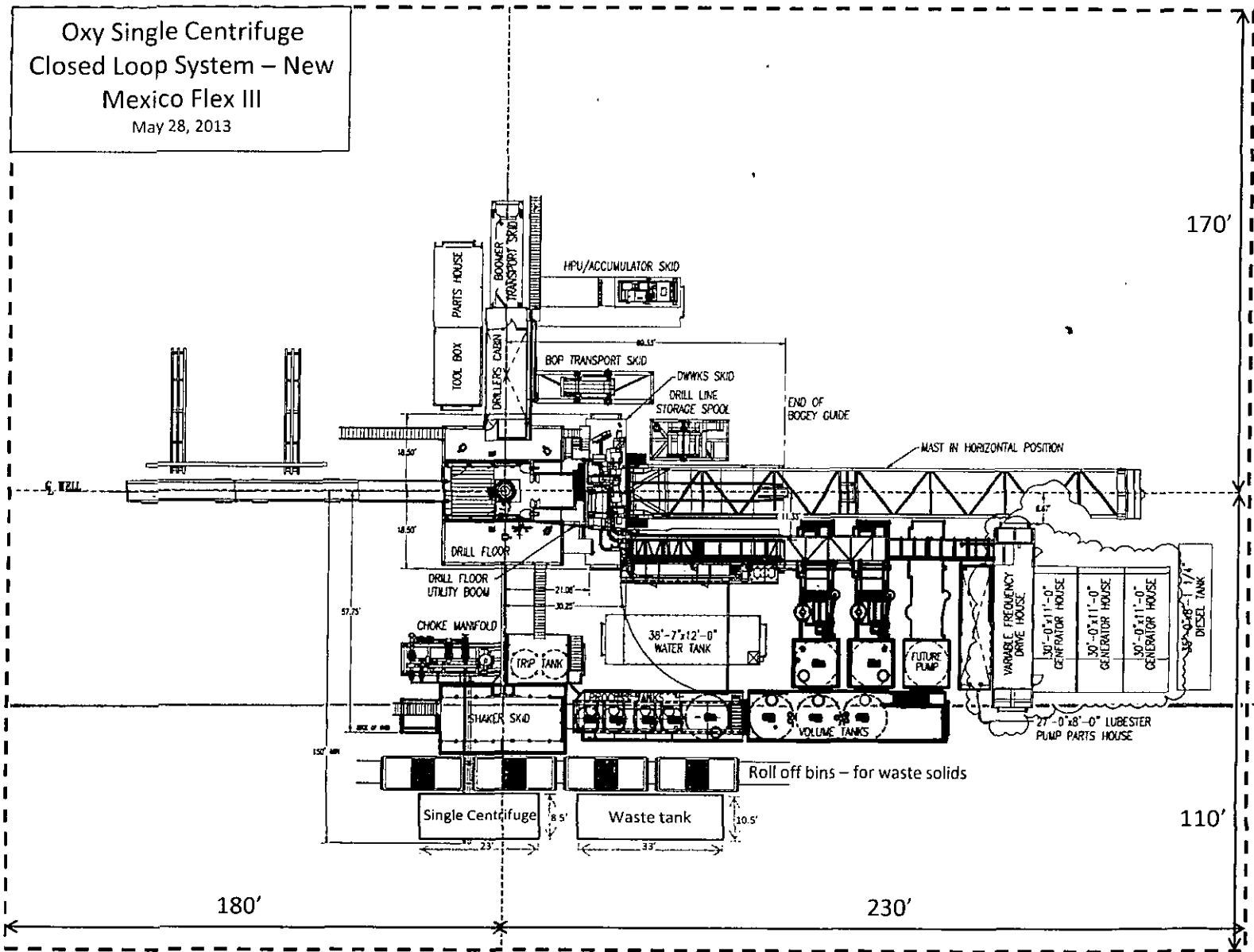
Signed : 

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

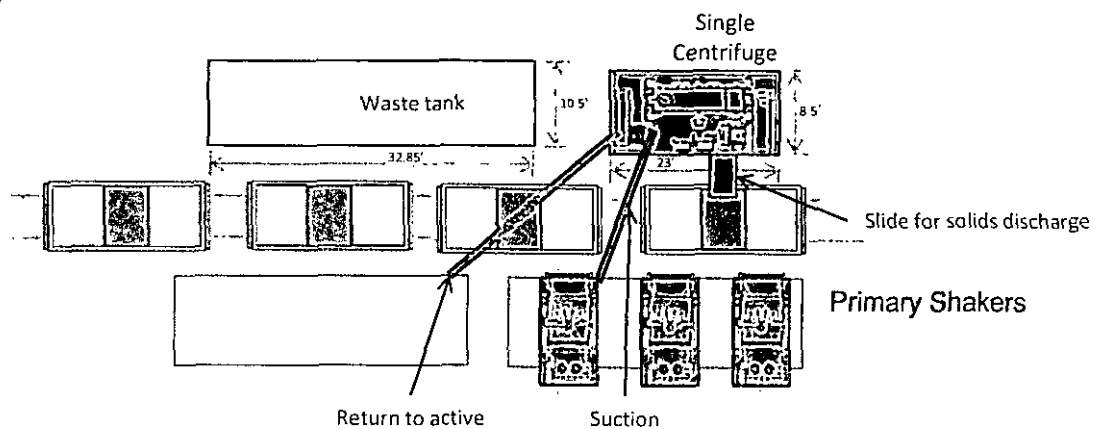
Date: 04. April. 2008

Position: Q.C. Manager

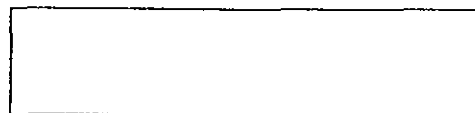
Oxy Single Centrifuge
Closed Loop System – New
Mexico Flex III
May 28, 2013



Oxy



Well Head



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

Flare Pit

50'

60'

150'

150'

170'

MADERA 30 FEDERAL #2H

110'

RECLAIMED AREA

280'

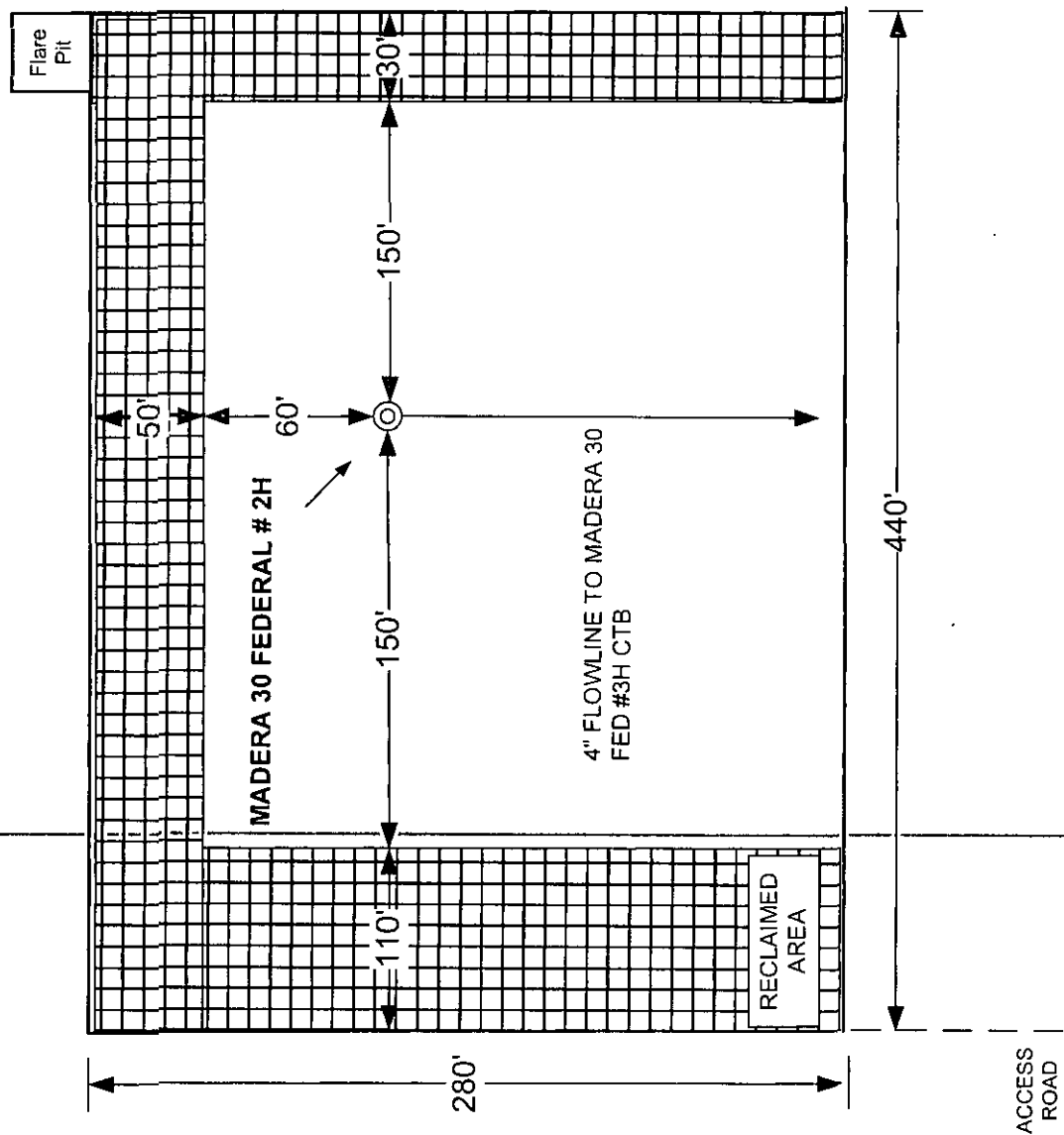
440'

ACCESS ROAD

8' Diameter x 8' Deep Tinhorn
Cellar
<u>FLEX 3 RIG DIAGRAM</u> MADERA 30 FEDERAL # 2H <i>U-door - East</i> LEA COUNTY, NEW MEXICO

[illegible]

Facility Layout



REVISION BLOCK		ENGINEERING RECORD			
NO.	DATE	DESCRIPTION	BY	CHK	APP
A	8/15/14	PRELIMINARY DRAFT	FJR		
B	10/24/14	PRELIMINARY DRAFT - REVISED WELL PAD DIMENSIONS TO 280'x440'	FJR		
			FJR		10/24/2014

FACILITY LAYOUT DIAGRAM
MADERA 30 FEDERAL # 2H
 LEA COUNTY, NEW MEXICO