Form 3160 -3 (March 2012)

OCD Artesia

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

DEPAR PMENT	OF T	THE	INTERIOR
BUREAU OF L	AND	MAN	NAGEMENT

5 Lease Senal No

12

BUREAU OF LAND M.	ANAGEM	ENT]	NIVI-048343				
APPLICATION FOR PERMIT T		6. If Indian, Allotee	or Tribe Name	9/17/				
la Type of work DRILL REE	NTER			7 If Unit or CA Agreement, Name and No				
b Type of Well Oil Well Gas Well Other	[Single Zone Multip	ole Zone	8 Lease Name and PIGLET 21 FEDE	Well No RAL #9 ८ ू	39440		
Name of Operator OXY USA WTP LIMITED PARTNER	RSHIP	192463	3	9 API Well No	15-40	709		
3a Address P.O. BOX 4294		ne No. (include area code)		10. Field and Pool. or	. ,	61		
HOUSTON, TX 77210		13-6640		ARTESIA, GLORI	ETA-YESO (D/ 7/6		
Location of Well (Report location clearly and in accordance with	r any Stale	MORIHOUS		11. Sec., T R. M. or I		oi Area		
At surface 488' FNL & 1574' FWL		LOCATION		C, SEC 21, T17S,	R28E			
At proposed prod. zone				10 C	113	0		
4 Distance in miles and direction from nearest town or post office* 12 miles East of Artesia, N M				12 County or Parish EDDY	NN	State 1		
5 Distance from proposed* 488' location to nearest property or lease line, ft. (Also to nearest drig unit line, if any)	16. No 120	16. No of acres in lease 17 Spacing Unit dedicated to the 120						
8 Distance from proposed location 441' to nearest well, drilling, completed, applied for, on this lease, ft.		oposed Depth MD/TVD	20. BLM/B ES0136	IA Bond No on file		•		
1 Elevations (Show whether DF, KDB, RT, GL, etc.) 3595'		pproximate date work will star 5/2012	rt*	23. Estimated duration 10 DAYS				
	24	Attachments			· - · · · · · · · · · · · · · · · · · ·			
he following, completed in accordance with the requirements of On	shore Oil an	d Gas Order No 1, must be at	ttached to this	form				
Well plat certified by a registered surveyor 2. A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office).		Item 20 above). he 5. Operator certific	cation	s unless covered by a	-	·		
5 Signature M. M. W. C. C. S. Signature	1	Name <i>(Printed/Typed)</i> JENNIFER DUARTE (je	nnifer_dua	te@oxy.com)	Date 05/21/2012	2		
Ile REGULATORY ANALYST								
pproved by (Signature) /s/ Don Peterson	1	Name (Printed/Typed)	s/ Don F	eterson	Date SEP	1 3 201		
ile Q ^L FIELD MANAGER	(Office CARLSBAD FIELD OFFICE						
pplication approval does not warrant or certify that the applicant handle operations thereon onditions of approval, if any, are attached	nolds legal o	r equitable title to those righ	·	ect lease which would	•••	cant to		
tle 18 USC Section 1001 and Title 43 USC. Section 1212, make it ates any false, fictitious or fraudulent statements or representations	a crime for as to any m	any person knowingly and vatter within its jurisdiction				e Unuted		

(Continued on page 2)

*(Instructions on page 2)

NMOCD: MUST BE IN COMPLIANCE WIRLE 5.9 PRIOR TO Placing Well on PRODUCTION

Roswell Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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 filling of false statements. Executed this 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: OXYUSAWTP 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

DISTRICT I 6625 N. French Dr., Hobbs, NM 88240 Phone. (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. First St., Ariesta, Ntd 88210 Phone, (575) 748-1287 Fax, (575) 748-9720 DISTRICT III 1000 Rin Brazos Rosal, Aziec, NM 87410 Phone: (505) 334-6178 Fax. (505) 334-6170 DISTRICT IA 1220 S. St. Francis, Dr., Same Fe, NM 87505 Chone (505) 476-3460 Fex. (505) 476-3462

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

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

CIAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

See 20 Property Name Disvision 192463 OXY USA WILLIAM LINES PERFORMENT 19246 Oxide the property of the property	Or A A	Pl Number	A . C		Pool Code		Pool Nam	Pool Name			
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APD DATA – DRILLING PLAN –

OPERATOR NAME / NUMBER: OXY USA WTP LP

LEASE NAME / NUMBER: Piglet 21 Federal 9

STATE: NM

COUNTY: Eddy

SURFACE LOCATION:

488' FNL & 1574' FWL, Sec 21, T17S, R28E

C-102 PLAT APPROX GR ELEV: 3595'

EST KB ELEV: 3609' (14' KB)

1. GEOLOGIC NAME OF SURFACE FORMATION

a. Permian

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

Formation	TV Depth Top	Expected Fluids
Rustler	100	Fresh Water
Top of Salt	310	•
Base of Salt	390	-
Yates	410	-
Seven Rivers	604	-
Queen	1170	-
Grayburg	1640	Oil
San Andres	1749	Oil/Water
Glorietta	3350	Oil
Paddock	3440	Oil
Blinebry	3900	Oil
Tubb - Base of Yeso	4820	Oil
Drinkard	4965	-
TD	5300	TD

A. Fresh Water formations will be covered with the 16" conductor pipe, which will be set at 120' prior to spud.

GREATEST PROJECTED TD 5300' MD / 5300' TVD

OBJECTIVE: Yeso

3. CASING PROGRAM (NEW)

Surface Casing: 9.625" casing set at ± 450' MD/ 450' TVD in a 12.25" hole filled with 8.4 ppg mud

Interval	Length	Wt	Gr	Condition	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'- 450'	450'	36	J-55	New	ST&C	2020	3520	394	8.921	8.765	13.33	1.97	27.91

Using offset well information and Oxy Yeso State wells as reference, we have found lost circulation at depths up to 350'. We would like to cover these zones by setting surface casing in the Yates before continuing. We also need to have surface casing at this depth in order to have sufficient kick tolerance to drill to TD.

Production Casing: 5.5" casing set at ± 5300'MD / 5300'TVD in a 7.875" hole filled with 9.2 ppg mud

						Coll	Burst						
i		1		Condition		Rating	Rating	Jt Str	ID	Drift	SF	SF	SF
Interval	Length	Wt	Gr_		Cplg	(psi)	(psi)	(M-lbs)	(in)	(in)	Coll_	Burst	Ten
0'- 5300'	5300'	17	L-80	New	LT&C	6290	7740	338	4.892	4.767	2.48	3.86	4.37

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

4. CEMENT PROGRAM: * See COA

Surface Interval

Interval	Amount sx	Ft of Fill	. Type	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Surface (TOC:	0' - 450')						
Lead: 0' - 450' (150% Excess)	_150	0,	Premium Plus Cement: 94 lbm/sk Premium Plus Cement, 10 lbm/sk Cal-Seal 60, 0.125 lbm/sk Poly-E-Flake, 10 lbm/sk Kol-Seal, 1 % Calcium Chloride - Flake	·7.46	14.2	1.67	1290 psi
Tail: 0' - 450' (150% Excess)	250	450'	Premium Plus Cement: 94 lbm/sk Premium Plus Cement, 2 % Calcium Chloride - Flake	6.39	14.8	1.35	2500 psi

Production Interval

Interval	Amount sx	Ft of Fill	Туре	Gal/Sk	PPG	Ft ³ /sk	24 Hr Comp
Production (T	OC: 0' - 530)O')					
Lead: 0' - 3000' (125 % Excess)	600	3000'	Halliburton Light Premium Plus: 5% Salt, 3 lbm/sk Kol-Seal, 0.125 lb/sx Poly_E_Flake	9.95	12.9	1.89	530 psi
Tail: 3000' - 5300' (125 % Excess)	735	2300'	50/50 Poz Premium Plus: 3% Salt, 0.4% Halad ®-322, 0.125 lb/sx Poly E_Flake	5.64	14.5	1.24	980 psi

5. PRESSURE CONTROL EQUIPMENT

Surface: 0 - 450' None.

Production: 0 - 5300' 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 (including annular).

- a. The 11" 3000 psi blowout prevention equipment will be installed and operational after setting the 9 5/8" surface casing and the 9 5/8" SOW x 11" 3K conventional wellhead;
- **b.** The BOP and ancillary BOPE will be tested by a third party upon installation to the 9 5/8" 36# J-55 surface casing. All equipment will be tested to 250/3000 psi for 10 minutes except the annular, which will be tested to 70% of working pressure (2100 psi).
- c. The pipe rams will be functionally tested during each 24 hour period; the blind rams will be functionally tested on each trip out of the hole. These functional tests will be documented on the Daily Driller's Log. 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 3000 psi WP rating.

d. See attached BOP & Choke manifold diagrams.

Oxy requests a variance if Savanna 415 is used to drill this well to use a co-flex line between the BOP and choke manifold. See attached schematic.

Manufacturer: <u>Hebei Ouya Ltd.</u> Serial Number: 1642343-04

Length: 39" Size: 3" Ends: flanges

WP rating: 3000 psi Anchors required by manufacturer: No

6. MUD PROGRAM:

Depth	Mud Wt ppg	Vis Sec	Fluid Loss	Type System	
0 – 450'	9.6 - 10.0	27 – 30	NC	Fresh Water	
450' – TD	9.2 – 9.4	. 27 – 40	10 -20	Brine Water / Salt Gel	

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

A. 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.

7. 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.

8. LOGGING / CORING AND TESTING PROGRAM

A. Mud Logger: None.

B. DST's: None.

C. Open Hole Logs as follows: Triple combo for production section.

9. POTENTIAL HAZARDS:

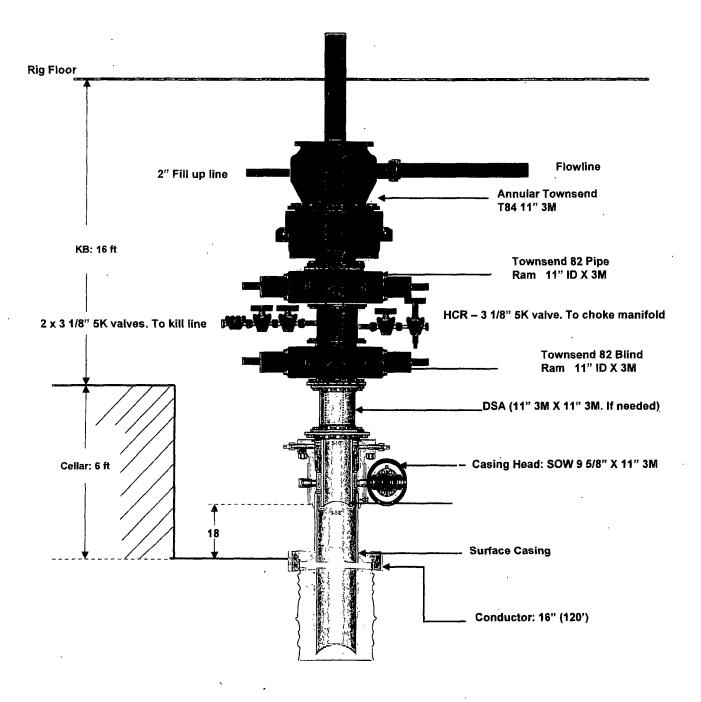
- A. H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6.
- B. The bottomhole pressure is anticipated to be 2536 psi.
- C. No abnormal temperatures or pressures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

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 15 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

11. COMPANY PERSONNEL:

Name.	Title	Office Phone
Carlos Mercado	Drilling Engineer	713-366-5418
Luis Tarazona	Drilling Engineer Supervisor	713-366-5771
Roger Allen	Drilling Superintendent	713-215-7617
Douglas Chester	Drilling Manager	713-366-5194

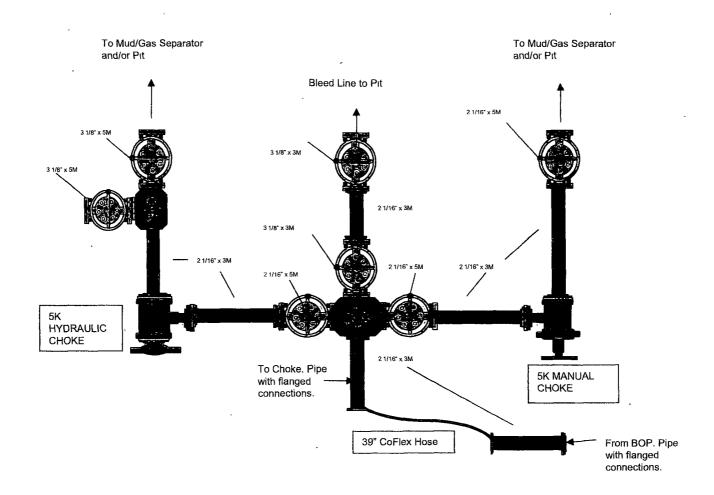


3-1/8" \times 2-1/16" 3000# NACE TRIM SINGLE GUT CHOKE & KILL MANIFOLD SYSTEM August-06

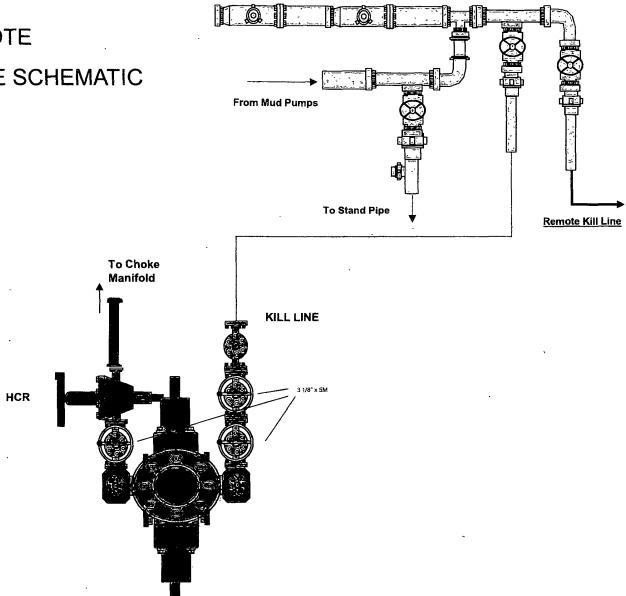
ITEM	I.D. NO.	DESCRIPTION
1	9053	2-1/16" 5000# BLIND FLANGE
2	AR0605004	2-1/16" 5000# STUDDED CROSS
3	AS0606009	2-1/16" 5000# CNV NACE TRIM GATE VALVE
4	9053	2-1/16" 5000# x 2" L.P. COMPANION FLANGE
5	Q7082	2-1/16" 3000# x 8.562" O.A.L. FLANGED SPACER SPOOL
6	AS0606003	2-1/16" 5000# CNV NACE TRIM GATE VALVE
7	A0445	3-1/8" x 3-1/8" x 2-1/16" x 2-1/16" 3000# STUDDED CROSS
8	AS0606119	3-1/8" 3000# CNV NACE TRIM GATE VALVE
9	F3323	3-1/8" 3000# x 3" L.P. COMPANION FLANGE
10	AS0606004	2-1/16" 5000# CNV NACE TRIM GATE VALVE
11	Q7082	2-1/16" 3000# x 3.312" O.A.L. SOLID SPACER SPOOL
12	AR0605007	2-1/16" 5000# STUDDED CROSS
13	AS0606005	2-1/16" 5000# CNV NACE TRIM GATE VALVE
14	9053	2-1/16" 5000# x 2" L.P. COMPANION FLANGE
15	9053	2-1/16" 5000# BLIND FLANGE
16	AS0606007	2-1/16" 5000# CNV NACE TRIM GATE VALVE
17	Q7082	2-1/16" 3000# x 7" O.A.L. DOUBLE STUDDED SPACER SPOOL
18	1091200-1-1130	2-1/16" 5000# CORTEC "CM-2" ADJUSTABLE CHOKE c/w 2 x 0.75" CERAMIC DISCS
19	AS0606006	2-1/16" 5000# CNV NACE TRIM GATE VALVE
20	A0441	3-1/8" x 3-1/8" x 2-1/16" x 2-1/16" x 2-1/16" 3000# 5- WAY STUDDED BLOCK
21	AS0606118	3-1/8" 3000# CNV NACE TRIM GATE VALVE
22	51209	3-1/8" 3000# x 10.5" O.A.L. FLANGED SPACER SPOOL
23	AS0606001	2-1/16" 5000# CNV NACE TRIM GATE VALVE
24		2-1/16" 3000# x 4.733" O.A.L. SOLID SPACER SPOOL
25	1091200-1-1137	2-1/16" 5000# CORTEC "CM-2" ADJUSTABLE CHOKE c/w 2 x 0.75" CERAMIC DISCS
26	Q7082	2-1/16" 3000# x 7" O.A.L. DOUBLE STUDDED SPACER SPOOL
27	AS0606008	2-1/16" 5000# CNV NACE TRIM GATE VALVE
28	AS0606002	2-1/16" 5000# CNV NACE TRIM GATE VALVE
29	9053	2-1/16" 5000# x 2" L.P. COMPANION FLANGE

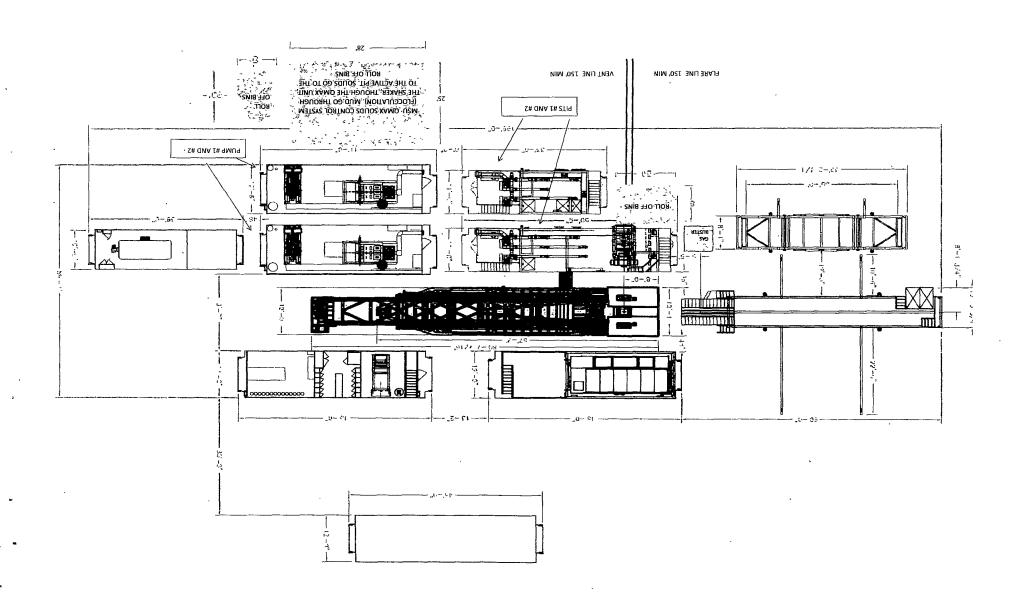


3M CHOKE MANIFOLD CONFIGURATION

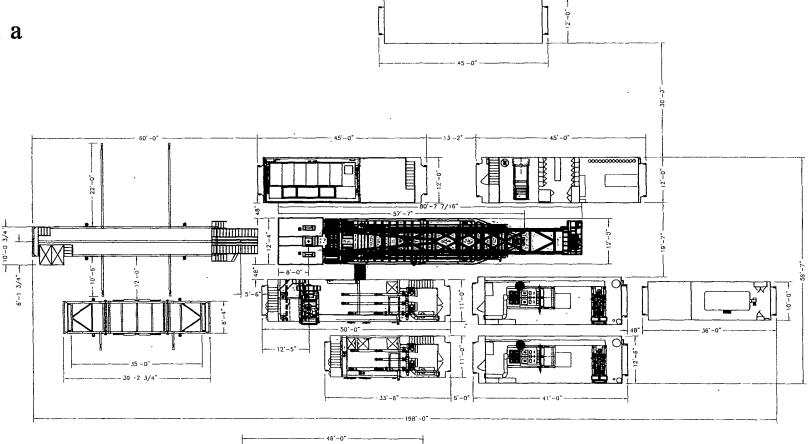


3M REMOTE KILL LINE SCHEMATIC

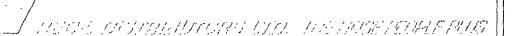












9727 47th Ave Edmonton, AB T6E 5M7 780-437-2630

Certificate of Compliance

Date:

2011-12-01

Park Mary

Test#:

Tested by: Dave Penner

Item Desc:

REDL-SLIM-48x39IN-FIG1502

Asset #:

1642343-04

Initial Location:

Chip ID: NOCHIPID Commercial Solutions INC (103867) Owner:

Site\2714 5 ST

Witnessed by: Ben Ahlskog

Item Attributes: Serial Number

Manufacturer Application Group Model

Date of Mfr

Date Installed Locn Desc

Inside Dia. Length

Working Pressure Test Pressure

Coupling A Attach Method A Coupling A Model

Coupling B Attach Method B Coupling B Model

Distributor Ref#

Factory Ref# EndUser Ref#

Notes

1642343-04

HEBEI OUYA LTD. SLIMHOLE

REDL-SLIMHOLE-3000-48

2011-12-01

3 IN 39 IN 3000 PSI 4500 PSI

948HX+48B/FIG1502-HU-48

Swaged

GEÖRGE MYER/KEMPER REBUILT

948HX+48B/FIG1502-HU-48

Swaged

GEORGE MYER/KEMPER REBUILT

1642343-04

BUILT ON PO: JON

<u>Default Hose Certification</u> Test Notes

Continuity Test Results Continuity Ohm Reading Certification Result

Generate Alert? Comments TimeStamp

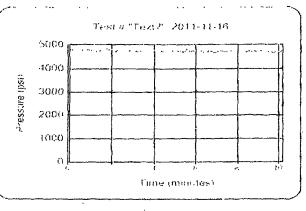
Hose passed all visual and physical

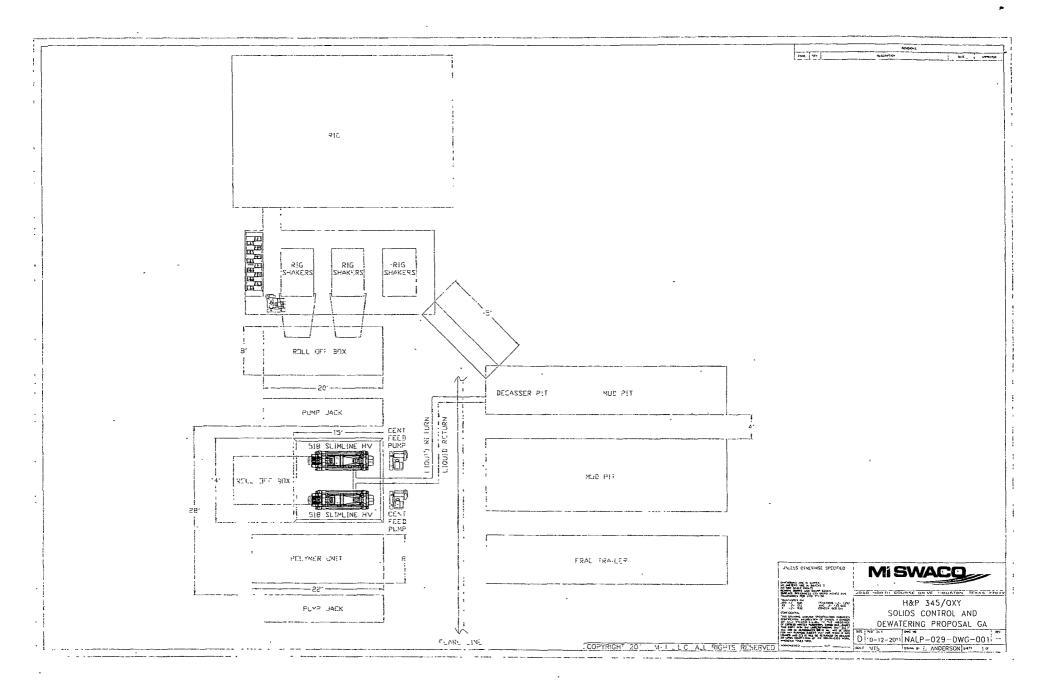
inspections.

N/A

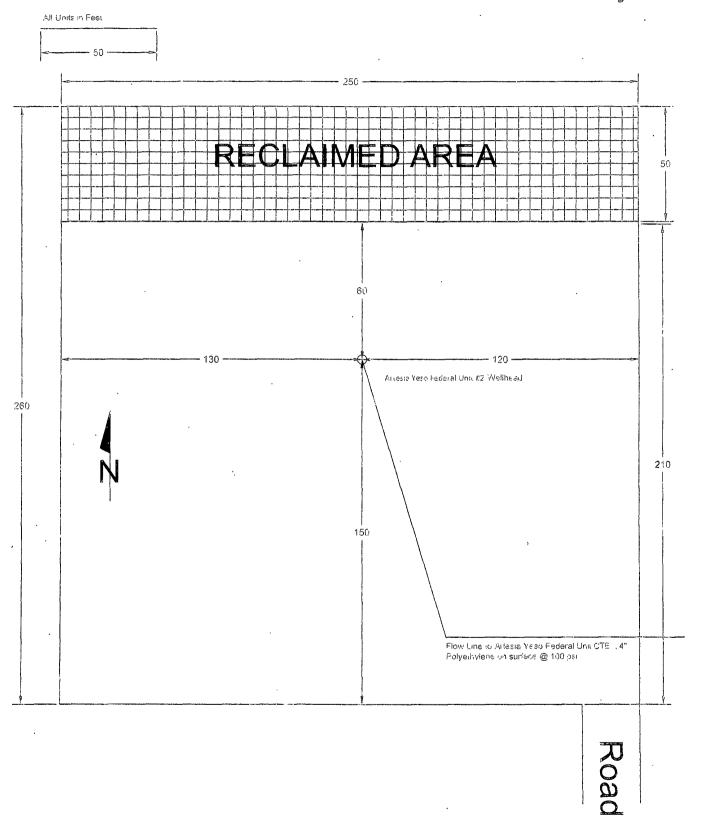
PASS

2011-12-01 12:54:14 -07:00





Artesia Yeso Federal Unit #2 Facilities Layout



PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA WTP LMTD PTNRSHP
LEASE NO.:	NM048344
WELL NAME & NO.:	9 Piglet 21 federal
SURFACE HOLE FOOTAGE:	488' FNL & 1574' FWL
BOTTOM HOLE FOOTAGE	
LOCATION:	Section 21, T.17 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.

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Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
☑ Drilling
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Logging Requirements
Waste Material and Fluids
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Declamation