


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0136
Expires: November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM0545035	
1b. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator OXY USA Inc.		8. Lease Name and Well No. Federal 29 #5	
3a. Address P.O. Box 50250 Midland, TX 79710-0250		9. API Well No. 30-015-37337	
3b. Phone No. (include area code) 432-685-5717		10. Field and Pool, or Exploratory Sand Dunes Delaware, West	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 330 FNL 2460 FWL NENW(C) At proposed prod. zone 332 FNL 376 FWL NWNW(D)		11. Sec., T., R., M., or Blk. and Survey or Area Sec 29 T23S R31E	
14. Distance in miles and direction from nearest town or post office* 20 miles northeast from Loving, NM		12. County or Parish Eddy	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 332'		13. State NM	
16. No. of Acres in lease 320		17. Spacing Unit dedicated to this well 40	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2134'		19. Proposed Depth 8599' 7970' RCB 8700' M 8300' V 3/19/09	
20. BLM/BIA Bond No. on file ES0136		21. Estimated duration 45	
21. Elevations (Show whether DF, KDB, RT, GL, etc) 3340.1' GL		22. Approximate date work will start* 8/09	
23. Attachments		24. RECEIVED OCT 14 2009	
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:			
1. Well plat certified by a registered surveyor. 2. A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office)		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 authorized officer.	
25. Signature 		Name (Printed/Typed) David Stewart	
Title Sr. Regulatory Analyst		Date 5/15/09	
Approved by (Signature) /s/ Linda S.C. Rundell		Name (Printed/Typed) Linda S.C. Rundell	
Title STATE DIRECTOR		Date OCT 7 2009	
Office NM STATE OFFICE			
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			
Conditions of approval, if any, are attached			
APPROVAL FOR TWO YEARS			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

*(Instructions on Reverse)

Carlsbad Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

The well becomes orthodox at approximately 5130 ft measured depth (5113.6 ft vertical).

Approval Subject to General Requirements
& Special Stipulations Attached

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-37337	Pool Code 53815	Pool Name Sand Dunes Delaware, West ✓
Property Code 304820	Property Name FEDERAL 29	Well Number 5
OGRID No. 16696	Operator Name OXY USA INC.	Elevation 3340.1'

Surface Location

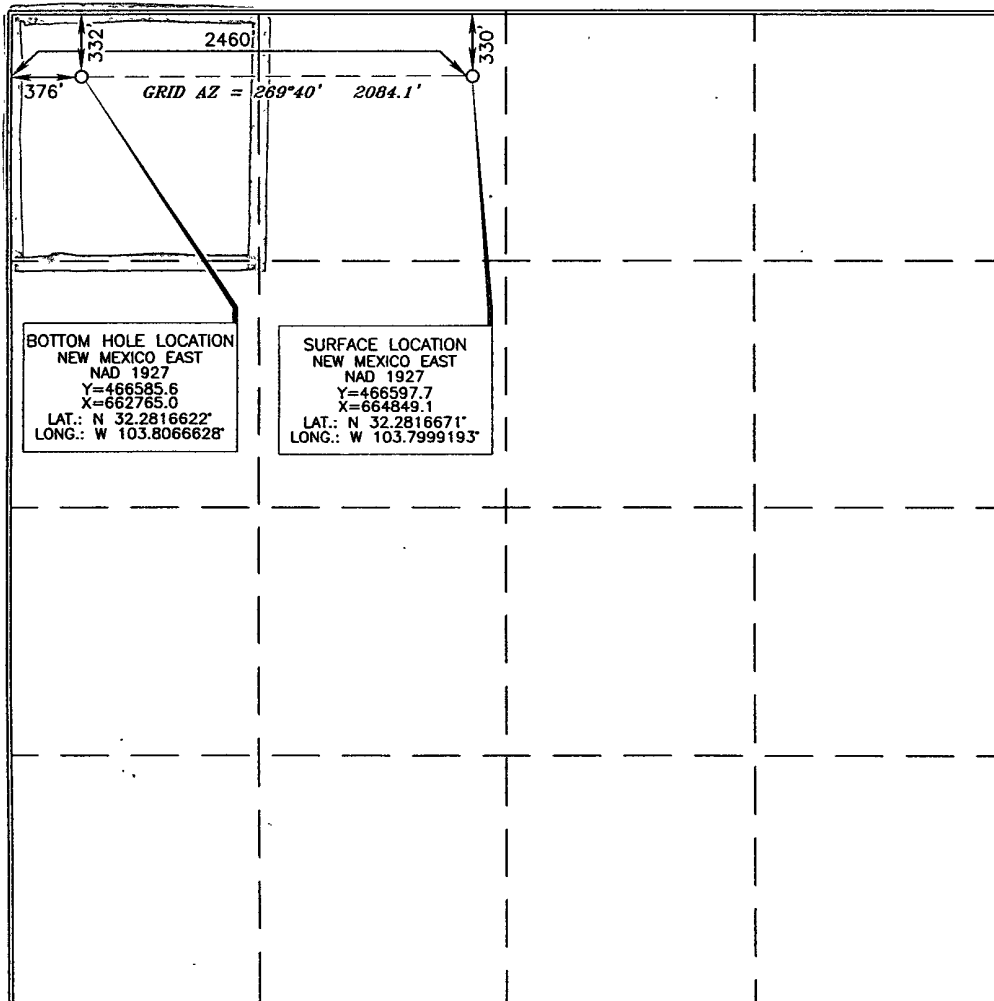
UL or lot no. C	Section 29	Township 23 SOUTH	Range 31 EAST, N.M.P.M.	Lot Idn	Feet from the 330'	North/South line NORTH	Feet from the 2460'	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot no. D	Section 29	Township 23 SOUTH	Range 31 EAST, N.M.P.M.	Lot Idn	Feet from the 332'	North/South line NORTH	Feet from the 376'	East/West line WEST	County EDDY
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Dedicated Acres 40	Joint or Infill N	Consolidation Code	Order No.
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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.

David L Stewart
Signature Date

David L Stewart
Printed Name

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.

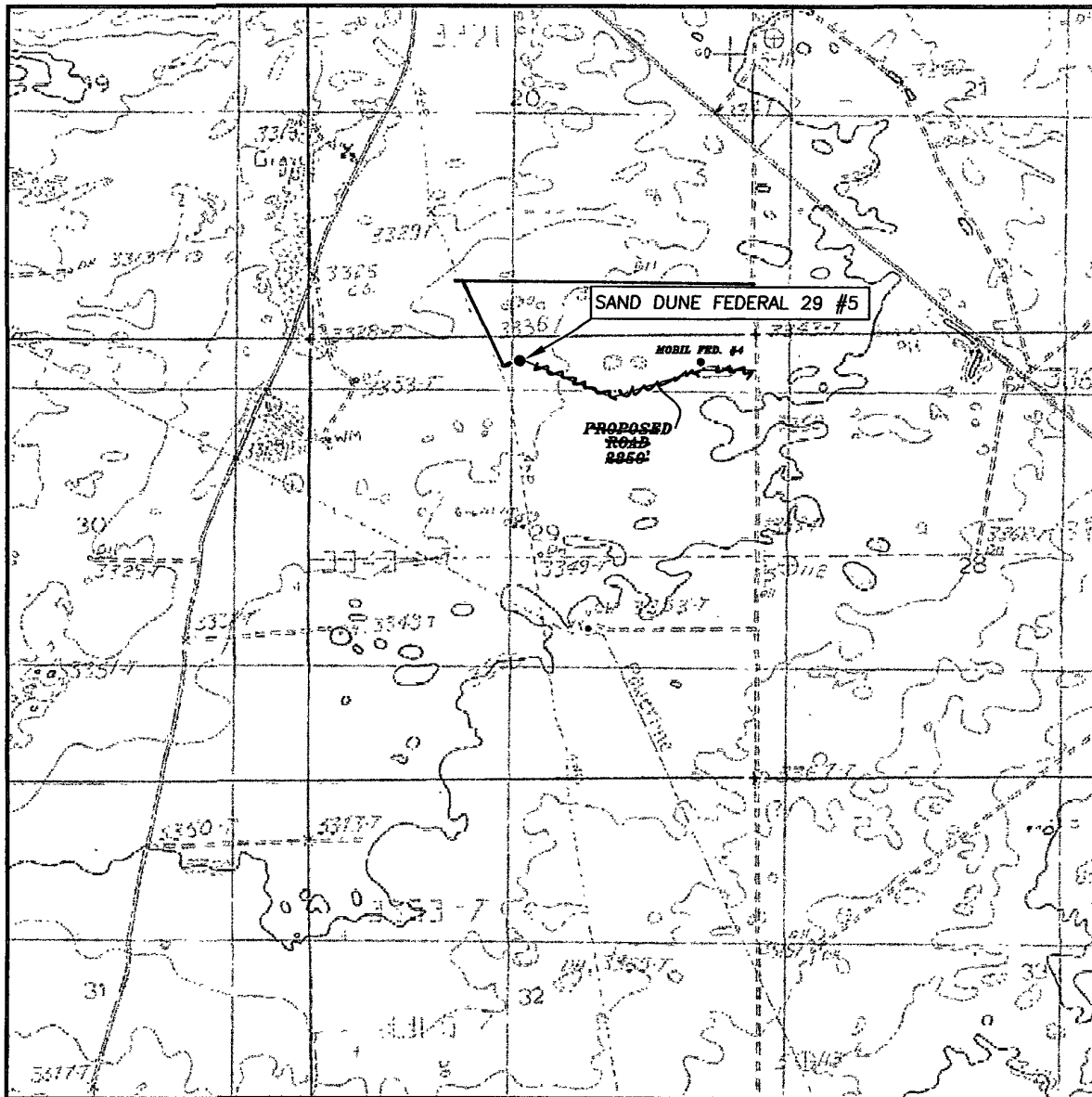
15079
FEBRUARY 26, 2009
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Abel 5/14/2009
Certificate Number 15079

WO# 080828WL-f (Rev. B) (KA)

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 29 TWP. 23-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 330' FNL & 2460' FWL

ELEVATION 3340.1'

OPERATOR OXY USA INC.

LEASE SAND DUNE FEDERAL 29 #5

U.S.G.S. TOPOGRAPHIC MAP
LOS MEDANOS, N.M.

DIRECTIONS:

BEGINNING AT THE INTERSECTION OF N.M. STATE HWY. #128 AND EDDY COUNTY ROAD #798 (RED ROAD), GO NORTHWEST ON N.M. STATE HWY. #128 FOR 3.9 MILES, TURN LEFT AND GO SOUTH ON LEASE ROAD FOR 0.5 MILES, TURN RIGHT ON PROPOSED ROAD AND GO WEST FOR 0.5 MILES TO LOCATION.

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



OXY USA INC.
SURVEY OF PROPOSED ROAD,
ELECTRIC LINE, AND FLOWLINE TO
THE FEDERAL 29 #5 WELL
LOCATION LOCATED IN SECTION 29,
TOWNSHIP 23 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO

LEGEND

- — DENOTES EXISTING WELL (AS NOTED)
- — DENOTES PROPOSED NEW WELL (AS NOTED)
- DENOTES PROPOSED PIPELINE
- DENOTES PROPOSED ELECTRIC LINE
- DENOTES PROPOSED ROAD

600' 0 600' 1200 FEET
 SCALE: 1" = 600'



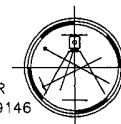
SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS

Terry J. Asel 8/19/2009
 Terry J. Asel R.P.S. No. 15079 DATE

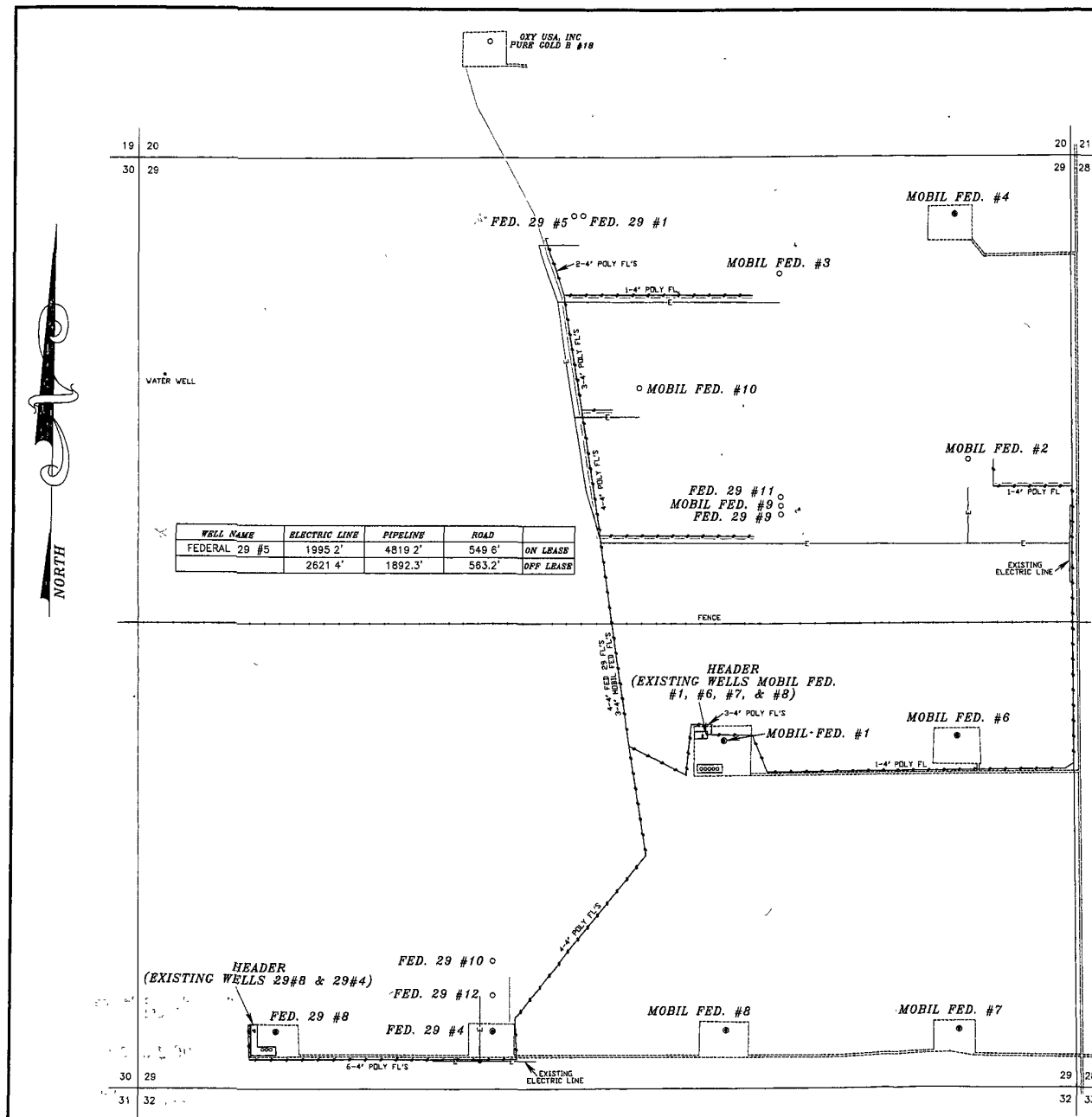
Asel Surveying

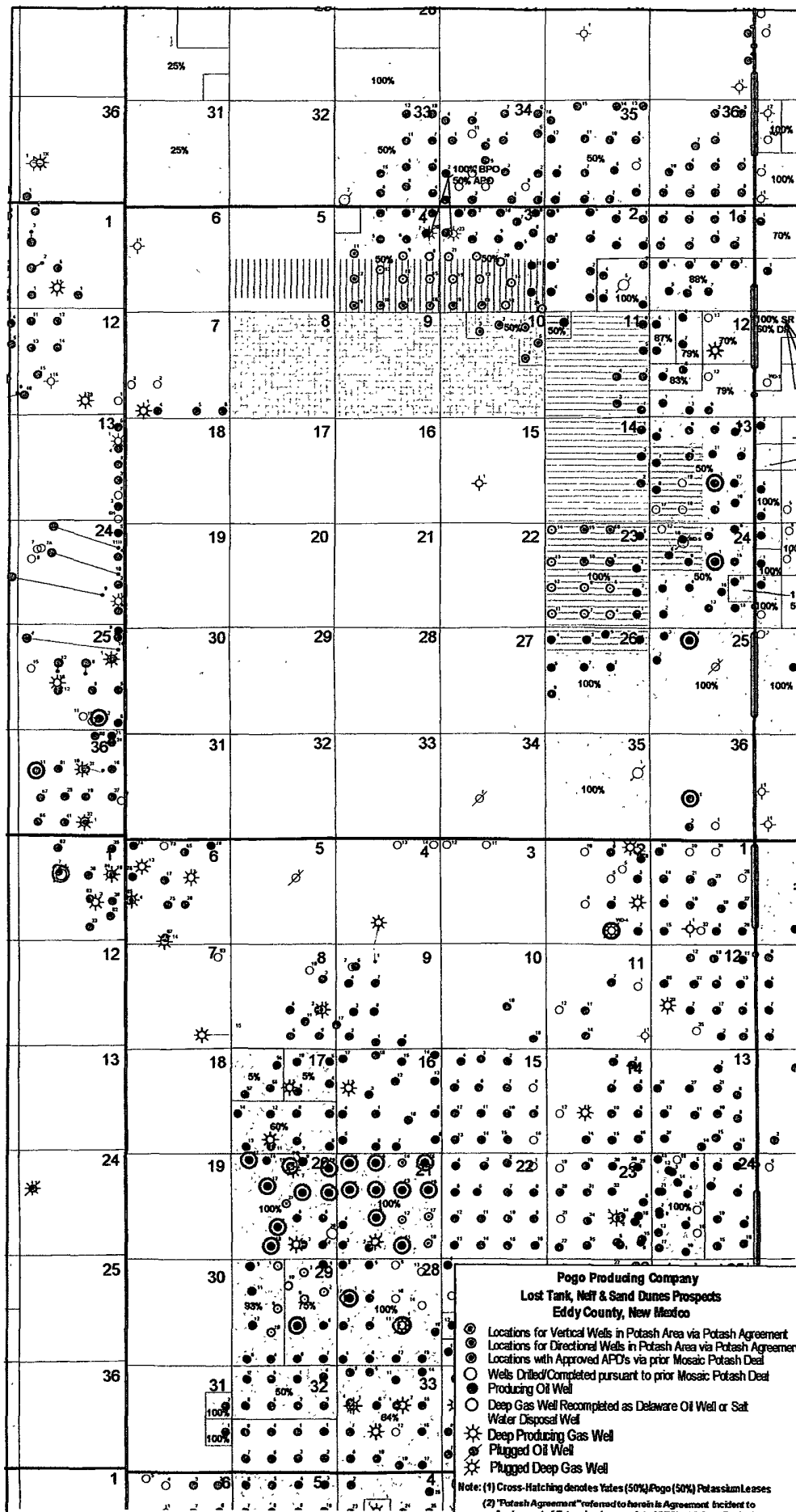
P.O. BOX 393 - 310 W TAYLOR
 HOBBS, NEW MEXICO - 575-393-9146



OXY USA INC.	Work Order # 090803RPE-f
Date Surveyed 07/01/2009	Surveyed by: Terry Asel
DWG # 090803RPE-f dwg	Drafted By: KA
Scale: 1" = 600'	Sheet 1 of 1

WELL NAME	ELECTRIC LINE	PIPELINE	ROAD	ON LEASE
FEDERAL 29 #5	1995.2'	4819.2'	549.6'	ON LEASE
	2621.4'	1892.3'	563.2'	OFF LEASE





DRILLING PROGRAM

Operator Name	OXY USA Inc.		16696	
Lease Name/Number	Federal 29 #5		304820	Federal Lease No. NM054035
Pool Name/Number:	Sand Dunes Delaware, West		53815	
Surface Location:	330 FNL 2460 FWL NENW (C)		Sec 29 T23S R31E	
Bottom Hole Location:	332 FNL 376 FWL NWNW(D)		Sec 29 T23S R31E	

Proposed TD:	<u>7970</u> <u>-8300'</u>	TVD	<u>8599</u> <u>-8700'</u>	TMD	Elevation: <u>3340.1'</u>
SL - Lat: 32.2816671	Long: 103.7999193		X=664849.1	Y=466597.7	NAD - 1927
BHL-Lat: 32.2816622	Long: 103.8066628		X=662765.0	Y=466585.6	NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

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

<u>Geological Marker</u>	<u>Depth</u>	<u>Type</u>
a. Upper Permian Sand	350'	Water
b. Anhydrite	3853'	Oil
c. Delaware	4035'	Oil
d. Bell Canyon	4107'	Oil
e. Cherry Canyon	4984'	Oil
f. Brushy Canyon	6275'	Oil
g. Bone Springs	7938'	Oil

3. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
14-3/4"	400'	11-3/4"	42#	ST&C	H40	New	7.48	9.88	2.6
10-5/8"	4000'	8-5/8"	32#	LT&C	J55	New	2.32	1.31	2
7-7/8"	<u>8599'</u> <u>8700'</u>	5-1/2"	17#	LT&C	J55	New	1.27	1.4	1.94
"	DVT-3950'	"							

→ See COA

4. Cement Program

- a. 11-3/4" Surface Circulate cement to Surface w/ 350sx PP w/ 2% CaCl₂, 14.8 ppg 1.34 yield
- b. 8-5/8" Intermediate Circulate cement to surface w/ 930sx HES light PP w/ 5% Salt + 5#/sx Gilsonite + .125#/sx Poly-E-Flake 12.9 ppg 1.87 yield followed by 200sx PP, 14.8 ppg 1.32 yield.
- c. 5-1/2" Production Cement 1st stage w/ 260sx IFH w/ 5# Gilsonite + .125#/sx Poly-E-Flake, 11.5 ppg 2.80 yield followed by 370sx Super H w/ .5% LAP-1 + .4% CFR-3 + 5#/sx Gilsonite + 3#/sx Salt + .25% D-AIR 1, 13.2 ppg 1.65 yield. Cement 2nd stage w/ 230sx IFC w/ .5% LAP-1 + .25#/sx CFR-3 11.5 ppg 2.78 yield followed by 100sx PP 14.8 ppg 1.32 yield
Estimated TOC @ Surface. ← 2nd Stage 280sx/150sx per operator 6/30/09
RGH 8/19/09

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

5. Pressure Control Equipment:

Surface 0-400'

None

Production 400-8300'

11" X 5M Double Ram, 11" X 3M Annular, 5M Choke Manifold

All BOP's and associated equipment will be tested to 1200psi with the rig pump before drilling out the 11-3/4" casing shoe. Prior to drilling out the 8-5/8" casing shoe, the BOP's and Hydril will be tested as per BLM Drilling Operations Order #2.

Pipe Rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 5000 psi WP rating.

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

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u> <u>ppg</u>	<u>Visc</u> <u>sec</u>	<u>Fluid</u> <u>Loss</u>	<u>Type System</u>
0-400'	8.4-8.8	32-34	NC	Fresh Water/MI Gel Spud Mud
400-4000'	9.9-10.0	28-29	NC	Brine Water
4000-7900'	8.4-8.5	28-29	NC	Fresh Water
7900-8700'	9.5-9.6	32-36	10-15	FW Mud/Duo Vis/Poly Pac R

The necessary mud products for weight additional and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

8. Logging, Coring and Testing Program: ← See COA

- Drill stem tests are not anticipated but if done will be based on geological sample shows.
- The open hole electrical logging program will consist of Triple Combo - CNL\LDT\DLL.
- No coring program is planned but if done will be sidewall rotary cores.
- Mud logging program will be initiated from 4000' to TD.

9. Potential Hazards:

No abnormal pressures, temperatures or H₂S gas are expected. The highest anticipated pressure gradient would .55psi/ft. If H₂S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No. 6.

No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.



OXY Permian

Eddy County, NM

Sand Dune Federal 29 Unit

Well #5

OH

Plan: Plan #3

Global X&Y Report

07 May, 2009

PATHFINDER®



Azimuths to Grid North
True North: -0.28°
Magnetic North: 7.65°

Magnetic Field
Strength: 48890.3snT
Dip Angle: 60.27°
Date: 5/4/2009
Model: IGRF200510



Project: Eddy County, NM
Site: Sand Dune Federal 29 Unit
Well: Well #5
Wellbore: OH
Plan: Plan #3 (Well #5/OH)

WELL DETAILS: Well #5

Ground Elevation: 3340.10
RKB Elevation: Est RKB @ 3356.60ft (Flex 4 Rig)
Rig Name: Flex 4 Rig

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	466597.70	664849.10	32° 16' 54.00175 N	103° 47' 59.70915 W	

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

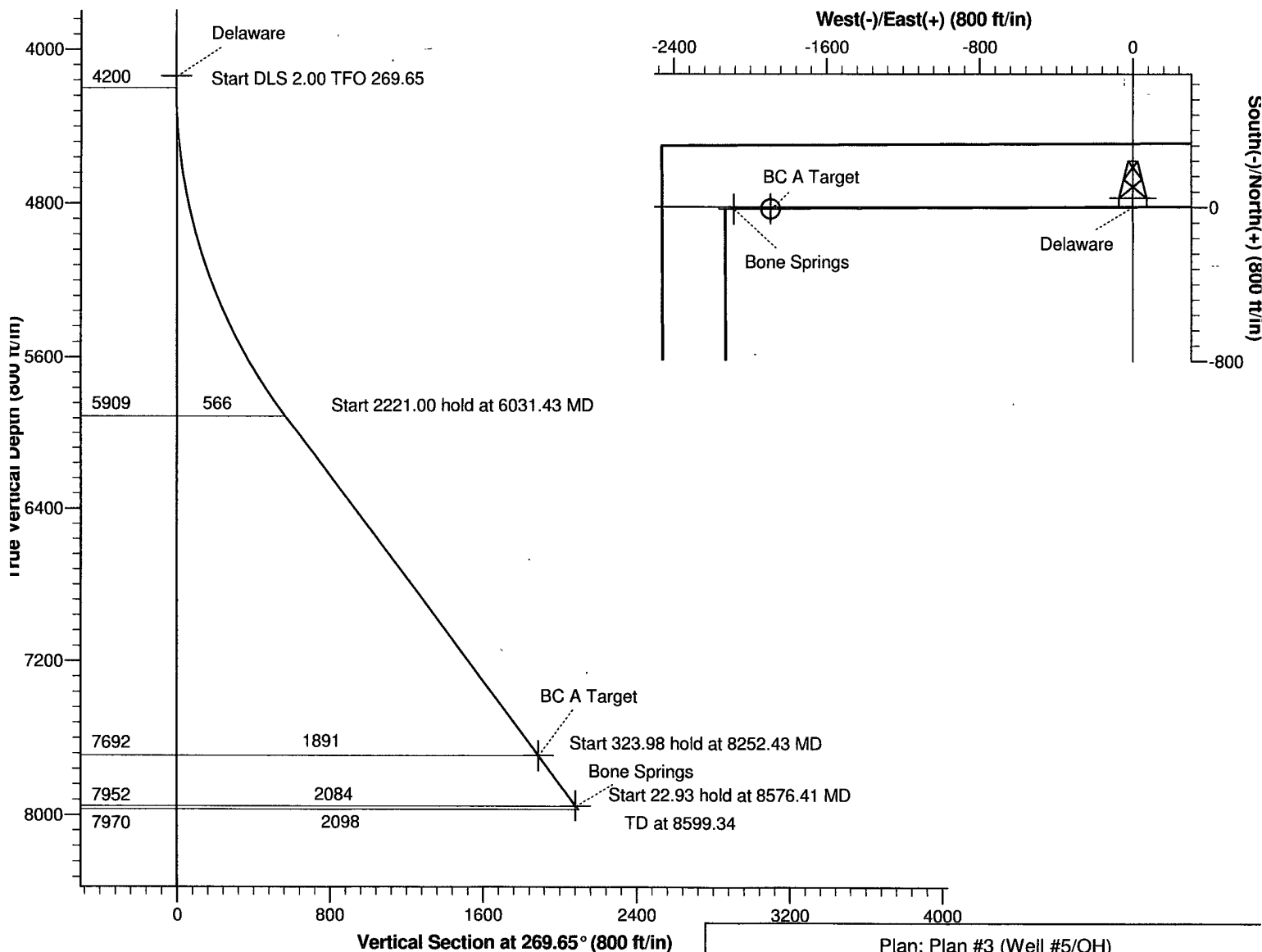
SECTION DETAILS

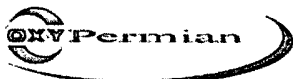
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	
3	6031.43	36.63	269.65	5909.20	-3.45	-565.73	2.00	269.65	565.74	
4	8252.43	36.63	269.65	7691.60	-11.52	-1890.81	0.00	0.00	1890.85	Sand Dune Fed 29 BC A Targe
5	8576.41	36.63	269.65	7951.60	-12.70	-2084.10	0.00	0.00	2084.14	Sand Dune Fed 29 Bone Sprin
6	8599.34	36.63	269.65	7970.00	-12.78	-2097.78	0.00	0.00	2097.82	

System Datum: Mean Sea Level
Local North: Grid

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Sand Dune Fed 29 Delaware	4141.60	0.00	0.00	466597.70	664849.10	Point
Sand Dune Fed 29 BC A Target	7691.60	-11.52	-1890.81	466586.18	662958.29	Circle (Radius: 50.0)
Sand Dune Fed 29 Bone Springs	7951.60	-12.70	-2084.10	466585.00	662765.00	Point





PathFinder Energy Services

Global X&Y Report



Company:	OXY Permian	Local Co-ordinate Reference:	Site Sand Dune Federal 29 Unit
Project:	Eddy County, NM	TVD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Site:	Sand Dune Federal 29 Unit	MD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Well:	Well #5	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	2003.16 NWDB

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

Site		Sand Dune Federal 29 Unit			
Site Position:		Northing:	466,597.70 ft	Latitude:	32° 16' 54.00175 N
From:	Map	Easting:	664,849.10 ft	Longitude:	103° 47' 59.70915 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.28 °

Well	Well #5					
Well Position	+N-S	0.00 ft	Northing:	466,597.70 ft	Latitude:	32° 16' 54.00175 N
	+E-W	0.00 ft	Easting:	664,849.10 ft	Longitude:	103° 47' 59.70915 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,340.10 ft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	5/4/2009	7.94	60.27	48,890

Design:	Plan #3			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	269.65

Survey Tool Program		Date 5/7/2009		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
0.00	8,599.34	Plan #3 (OH)	MWD	MWD - Standard



PathFinder Energy Services
Global X&Y Report



Company:	OXY Permian	Local Co-ordinate Reference:	Site Sand Dune Federal 29 Unit
Project:	Eddy County, NM	TVD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Site:	Sand Dune Federal 29 Unit	MD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Well:	Well #5	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	2003.16 NWDB

Planned Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	Northing (ft)	Easting (ft)	DLeg (°/100ft)	
4,100.00	0.00	0.00	4,100.00	-743.40	0.00	466,597.70	664,849.10	0.00	
4,141.60	0.00	0.00	4,141.60	-785.00	0.00	466,597.70	664,849.10	0.00	
Sand Dune Fed 29 Delaware									
4,200.00	0.00	0.00	4,200.00	-843.40	0.00	466,597.70	664,849.10	0.00	
4,300.00	2.00	269.65	4,299.98	-943.38	1.75	466,597.69	664,847.35	2.00	
4,400.00	4.00	269.65	4,399.84	-1,043.24	6.98	466,597.66	664,842.12	2.00	
4,500.00	6.00	269.65	4,499.45	-1,142.85	15.69	466,597.60	664,833.41	2.00	
4,600.00	8.00	269.65	4,598.70	-1,242.10	27.88	466,597.53	664,821.22	2.00	
4,700.00	10.00	269.65	4,697.47	-1,340.87	43.52	466,597.43	664,805.58	2.00	
4,800.00	12.00	269.65	4,795.62	-1,439.02	62.60	466,597.32	664,786.50	2.00	
4,900.00	14.00	269.65	4,893.06	-1,536.46	85.10	466,597.18	664,764.00	2.00	
5,000.00	16.00	269.65	4,989.64	-1,633.04	110.98	466,597.02	664,738.12	2.00	
5,100.00	18.00	269.65	5,085.27	-1,728.67	140.21	466,596.85	664,708.89	2.00	
5,200.00	20.00	269.65	5,179.82	-1,823.22	172.77	466,596.65	664,676.33	2.00	
5,300.00	22.00	269.65	5,273.17	-1,916.57	208.60	466,596.43	664,640.50	2.00	
5,400.00	24.00	269.65	5,365.21	-2,008.61	247.67	466,596.19	664,601.43	2.00	
5,500.00	26.00	269.65	5,455.84	-2,099.24	289.93	466,595.93	664,559.17	2.00	
5,600.00	28.00	269.65	5,544.94	-2,188.34	335.33	466,595.66	664,513.78	2.00	
5,700.00	30.00	269.65	5,632.39	-2,275.79	383.81	466,595.36	664,465.30	2.00	
5,800.00	32.00	269.65	5,718.11	-2,361.51	435.31	466,595.05	664,413.80	2.00	
5,900.00	34.00	269.65	5,801.97	-2,445.37	489.77	466,594.72	664,359.34	2.00	
6,000.00	36.00	269.65	5,883.88	-2,527.28	547.13	466,594.37	664,301.98	2.00	
6,031.43	36.63	269.65	5,909.20	-2,552.60	565.74	466,594.25	664,283.37	2.00	
6,100.00	36.63	269.65	5,964.23	-2,607.63	606.65	466,594.00	664,242.46	0.00	
6,200.00	36.63	269.65	6,044.49	-2,687.89	666.31	466,593.64	664,182.80	0.00	
6,300.00	36.63	269.65	6,124.74	-2,768.14	725.98	466,593.28	664,123.14	0.00	
6,400.00	36.63	269.65	6,204.99	-2,848.39	785.64	466,592.91	664,063.48	0.00	



PathFinder Energy Services
Global X&Y Report



Company:	OXY Permian	Local Co-ordinate Reference:	Site Sand Dune Federal 29 Unit
Project:	Eddy County, NM	TVD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Site:	Sand Dune Federal 29 Unit	MD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Well:	Well #5	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	2003.16 NWDB

Planned Survey									
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	V. Sec (ft)	Northing (ft)	Easting (ft)	DLeg (°/100ft)	
6,500.00	36.63	269.65	6,285.24	-2,928.64	845.30	466,592.55	664,003.81	0.00	
6,600.00	36.63	269.65	6,365.49	-3,008.89	904.96	466,592.19	663,944.15	0.00	
6,700.00	36.63	269.65	6,445.75	-3,089.15	964.63	466,591.82	663,884.49	0.00	
6,800.00	36.63	269.65	6,526.00	-3,169.40	1,024.29	466,591.46	663,824.83	0.00	
6,900.00	36.63	269.65	6,606.25	-3,249.65	1,083.95	466,591.10	663,765.17	0.00	
7,000.00	36.63	269.65	6,686.50	-3,329.90	1,143.61	466,590.73	663,705.51	0.00	
7,100.00	36.63	269.65	6,766.75	-3,410.15	1,203.28	466,590.37	663,645.85	0.00	
7,200.00	36.63	269.65	6,847.01	-3,490.41	1,262.94	466,590.01	663,586.18	0.00	
7,300.00	36.63	269.65	6,927.26	-3,570.66	1,322.60	466,589.64	663,526.52	0.00	
7,400.00	36.63	269.65	7,007.51	-3,650.91	1,382.26	466,589.28	663,466.86	0.00	
7,500.00	36.63	269.65	7,087.76	-3,731.16	1,441.93	466,588.92	663,407.20	0.00	
7,600.00	36.63	269.65	7,168.01	-3,811.41	1,501.59	466,588.55	663,347.54	0.00	
7,700.00	36.63	269.65	7,248.27	-3,891.67	1,561.25	466,588.19	663,287.88	0.00	
7,800.00	36.63	269.65	7,328.52	-3,971.92	1,620.91	466,587.82	663,228.22	0.00	
7,900.00	36.63	269.65	7,408.77	-4,052.17	1,680.58	466,587.46	663,168.55	0.00	
8,000.00	36.63	269.65	7,489.02	-4,132.42	1,740.24	466,587.10	663,108.89	0.00	
8,100.00	36.63	269.65	7,569.27	-4,212.67	1,799.90	466,586.73	663,049.23	0.00	
8,200.00	36.63	269.65	7,649.53	-4,292.93	1,859.57	466,586.37	662,989.57	0.00	
8,252.43	36.63	269.65	7,691.60	-4,335.00	1,890.85	466,586.18	662,958.29	0.00	
Sand Dune Fed 29 BC A Target									
8,300.00	36.63	269.65	7,729.78	-4,373.18	1,919.23	466,586.01	662,929.91	0.00	
8,400.00	36.63	269.65	7,810.03	-4,453.43	1,978.89	466,585.64	662,870.25	0.00	
8,500.00	36.63	269.65	7,890.28	-4,533.68	2,038.55	466,585.28	662,810.58	0.00	
8,576.41	36.63	269.65	7,951.60	-4,595.00	2,084.14	466,585.00	662,765.00	0.00	
Sand Dune Fed 29 Bone Springs									
8,599.34	36.63	269.65	7,970.00	-4,613.40	2,097.82	466,584.92	662,751.32	0.00	



PathFinder Energy Services
Global X&Y Report



Company:	OXY Permian	Local Co-ordinate Reference:	Site Sand Dune Federal 29 Unit
Project:	Eddy County, NM	TVD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Site:	Sand Dune Federal 29 Unit	MD Reference:	Est RKB @ 3356.60ft (Flex 4 Rig)
Well:	Well #5	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #3	Database:	2003.16 NWDB

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
Sand Dune Fed 29 Dc	- plan hits target center	0.00	0.00	4,141.60	0.00	0.00	466,597.70	664,849.10	32° 16' 54.00175 N 03° 47' 59.70915 W
- Point									
Sand Dune Fed 29 Bc	- plan hits target center	0.00	0.00	7,951.60	-12.70	-2,084.10	466,585.00	662,765.00	32° 16' 53.97798 N 03° 48' 23.98621 W
- Point									
Sand Dune Fed 29 Bc	- plan hits target center	0.00	0.00	7,691.60	-11.52	-1,890.81	466,586.18	662,958.29	32° 16' 53.98026 N 03° 48' 21.73463 W
- Circle (radius 50.00)									

Checked By: _____ Approved By: _____ Date: _____

CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.
Equipment : 8 pcs. Choke and Kill Hose with installed couplings
Type : 3" x 10,67 m WPP: 10000 psi
Supplier File Number : 412838
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.
HU

Date: 04. April. 2008

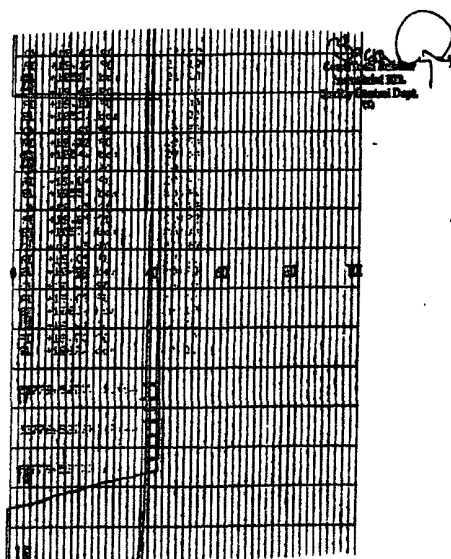
Position: Q.C. Manager

PHOENIX Beattie									
Material Identification Certificate									
PA No	008330	Client	HELMERICH & PAYNE INT'L DRILLING	Client Ref	370-388-001	Page 1			
Part No	Description	Material Desc	Material Spec	Qty	WO No	Batch No	Test Cert No	Bin No	Issued No
WPC200-25-401	2" 100' LBS C&K HOSE & 200' C&K			1	2401	18777/18805		18777	
SC200-4000	LIFTING & SAFETY EQUIPMENT TO			1	2400	0266405		02664	
SC200-4000	SAFETY CLAMP JERKING 7.50T	CHROME STEEL		1	2400	02664		026	
SC200-4000	SAFETY CLAMP JERKING 7.50T	CHROME STEEL		1	2400	02664		026	

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.

05/03/08

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 748
PURCHASER: Phoenix Bactile Co.			P.O. N°: 002491	
CONTITECH ORDER N°: 412838	HOSE TYPE: 3" ID		Choke and Kill Hose	
HOSE SERIAL N°: 52777	NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,98 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Duration: 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	T7060A	
		AISI 4130	28864	
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		Continental Rubber Industrial R&D Quality Control Dept. 10		



Delivery Note

Customer Order Number	378-369-001	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 10C ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	J.J.L.	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Qty To Follow
1	HP100C3A-35-4F1 3" 10K 18C CBK HOSE x 35FT OAL ON 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w 80155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10,000psi Test pressure: 15,000psi Standard: API 18C Full specification Armor Guarding: Included Pine Rating: Not Included Temperature rating: -20 Deg C to +108 Deg C	1	1	0
2	SE003-MPP3 LIFTING & SAFETY EQUIPMENT TO SUIT HP100C3-35-F1 2 x 160mm ID Safety Clamps 2 x 24mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.78t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7 25T C/S GALVANIZED	1	1	0

Delivery Note

Customer Order Number	378-369-001	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 10C ATTN: JOE STEPHENSON - RIG 370 13609 INDUSTRIAL ROAD HOUSTON, TX 77015			

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	J.J.L.	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

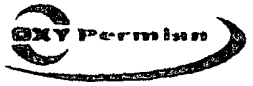
Phoenix Beattie Inspection Signature:

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.



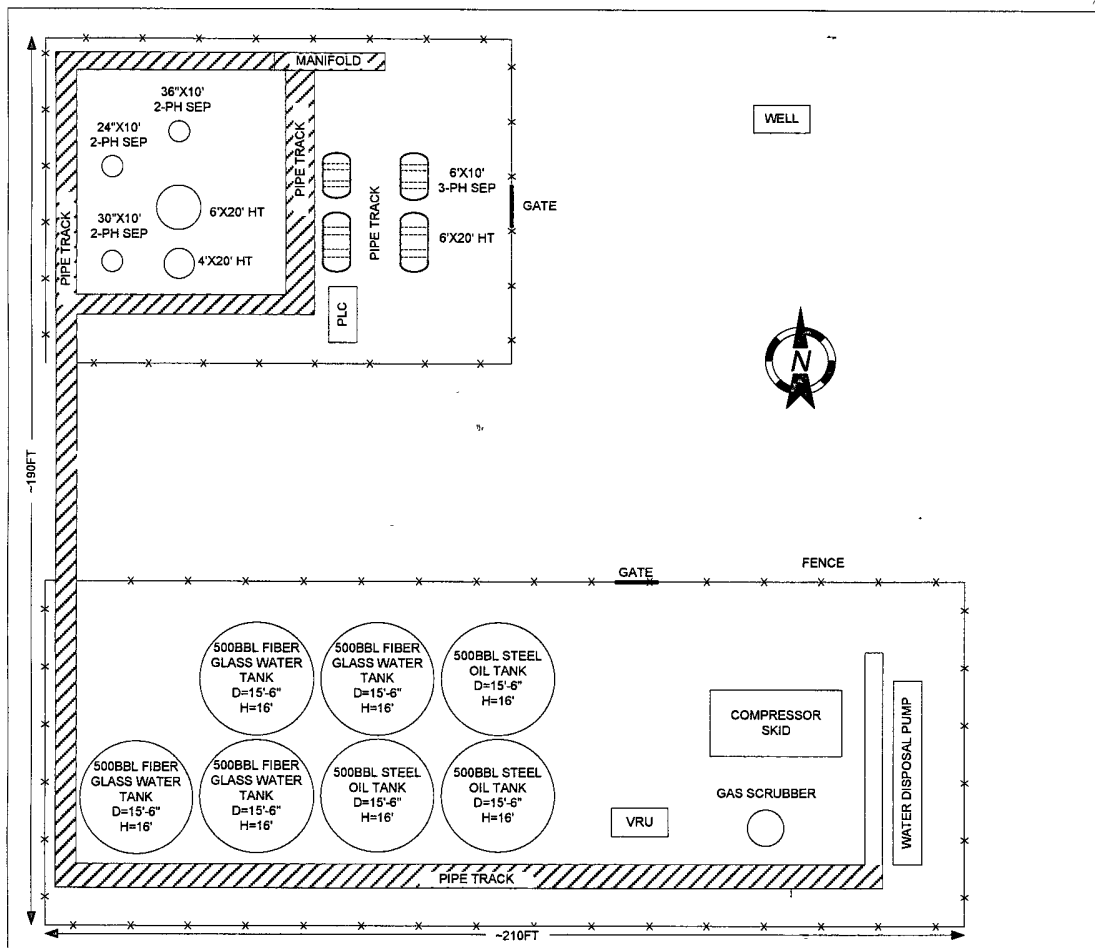
New Mexico Drilling Daily Circulating System Inspection
For Closed Loop Systems

Wellname:		Permit #:		Rig Mobe Date:	
County:				Rig Demobe Date:	

Inspection Date	Time	By Whom	Any drips or leaks from steel tanks, lines or pumps not contained?* Explain.	Has any hazardous waste been disposed of in system?

All circulating systems to be inspected DAILY during drilling operations.

*Any leak of the steel tanks, lines or pumps shall be reported to the NMOCD and repaired within 48 hours.



REV	DESCRIPTION	DATE	BY
0	Issues with System Description	05/14	NM

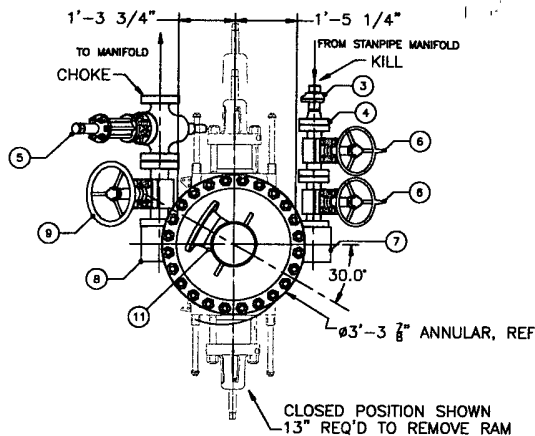


EDDY COUNTY, NM

OCCIDENTAL PERMIAN

FEDERAL 29-8 BATTERY PLOT PLAN

SIZE	FSCM NO	DWG NO	REV
A3			1
SCALE	None	SHEET	1 OF 1



PROPER TORQUE FOR BOLTS

COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE	
			CF=0.07	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

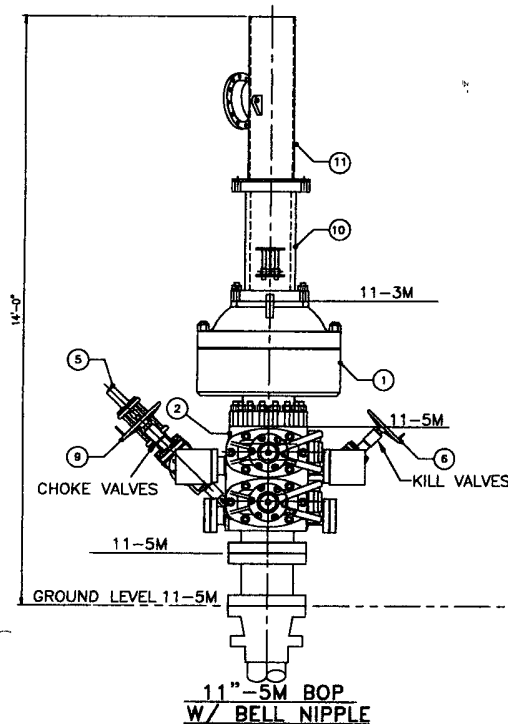
ITEM NO.	QUAN.	DESCRIPTION	PART NUMBER	WEIGHT
1	1	11"-5M BOP ASSEMBLY		
1	1	ANNULAR, 11x5M BOLTED TYPE		6005
2	1	BOP DOUBLE RAM		7600
4		RAM ELEMENTS		444
3	1	HAMMER UNION, 2-1502# JOH (BW)		5
4	1	FLANGE, W/ 2 1/16-5M API		42
5	1	VALVE, GATE FLS-HCR 3 1/8-5M		396
6	2	VALVE, GATE 2 1/16-5M		350
7	1	90° 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	UK F88-H-318.01A	780
11	1	BELL NIPPLE EXTENSION	UK F88-H-318.01A	396
12	1	11"-5M x 11"-5M x 1'-3" LONG SPACER		800
		SPOOL - WORKING PRESSURE 5000 PSI		

HARDWARE

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

APPROX. TOTAL WEIGHT = 18,228 LBS.

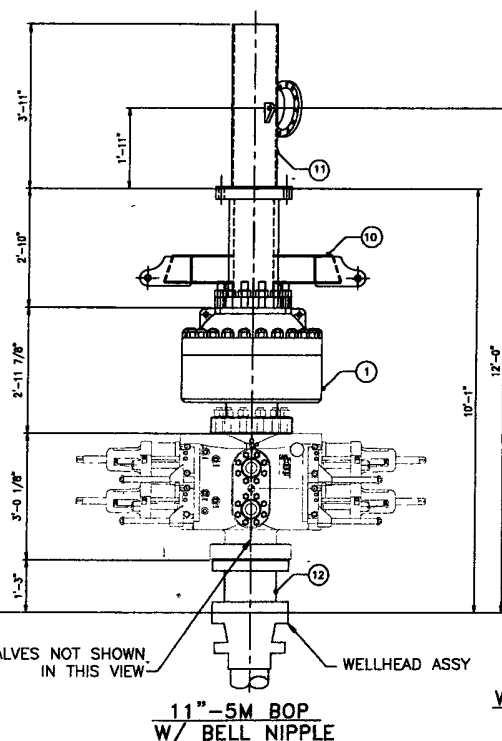
SMITH MODEL 7068
11"-3M SHORTY
ROTATING HEAD
(OPERATOR FURNISHED)



MAP FURNISHED
UNLESS NOTED

OPERATOR FURNISHED

WING VALVES NOT SHOWN
IN THIS VIEW



11"-5M BOP
W/ ROTATING HEAD

ENGINEERING APPROVAL DATE TITLE:

06/08/08	ADDED 1 OF 4 SHTS WAS 1 OF 3	DRJ
07/26/08	SHEET 1 OF 3 WAS 1 OF 5	DRJ

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

11"-5M BOP EQUIPMENT
GENERAL ARRANGEMENT

CUSTOMER: OXY-PERMAN

PROJECT: FAM

DRAWN: DJOHNSON

DATE: 07/14/08

DWG. NO.:

FILED U 300 B

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 INTL. DRILLING CO.

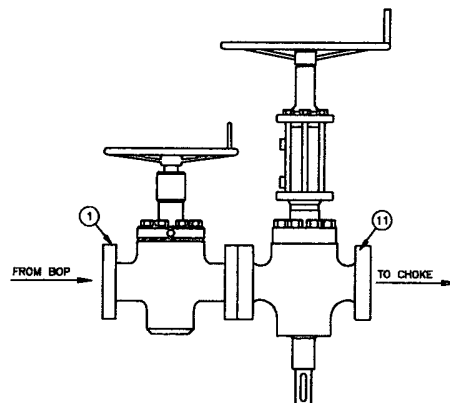
NOTES:

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

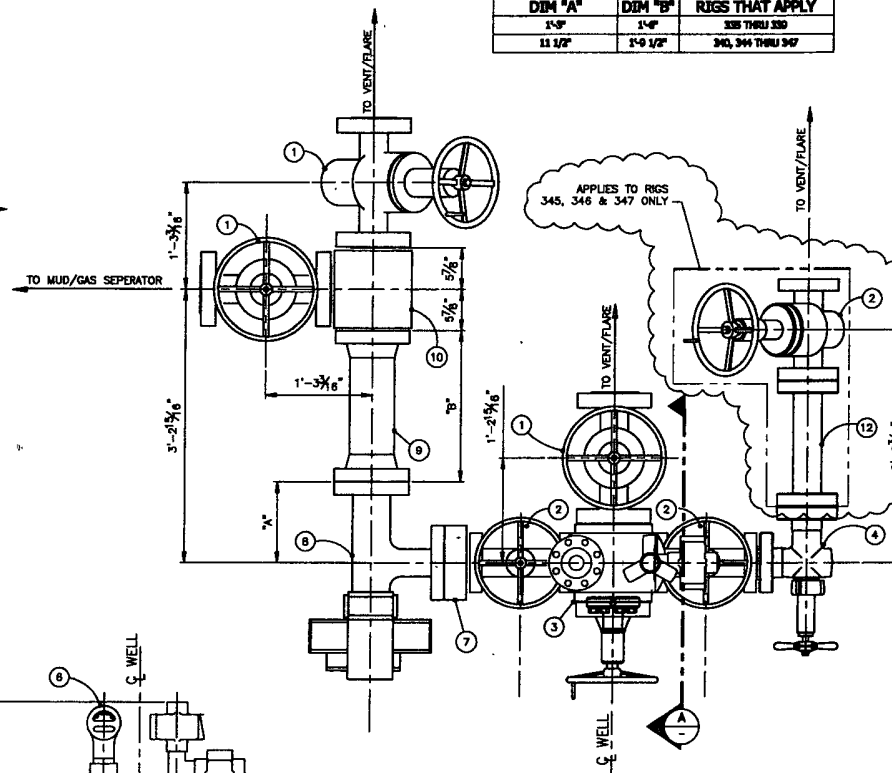
LEGEND

- ①—3 1/8"–5M FLANGED END GATE VALVE
- ②—2 1/16"–5M FLANGED END GATE VALVE
- ③—BLOCK WITH TRANSMITTER FLANGE AND PRESSURE GAUGE
- ④—2 1/16"–5M ADJUSTABLE CHOKE
- ⑤—TRANSMITTER FLANGE
- ⑥—PRESSURE GAUGE
- ⑦—DSA 2 1/16"–5M x 3 1/16"–10M
- ⑧—3 1/16"–10M HYDRAULIC CHOKE
- ⑨—3 1/8"–5M x 3 1/16"–10M SPOOL
- ⑩—3 1/8"–5M x 3 1/8"–5M STUDDED TEE
- ⑪—3 1/8"–5M FLANGED END HCR GATE VALVE
- ⑫—2 1/16"–5M x 2 1/16"–5M SPOOL

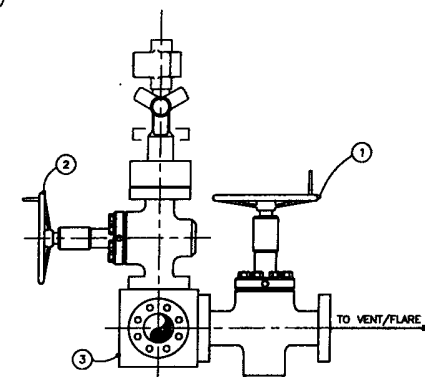
DIMENSION NOTATION		
DIM "A"	DIM "B"	RIGS THAT APPLY
1'-0"	1'-0"	338 THRU 350
11 1/2"	1'-0 1/2"	340, 344 THRU 347



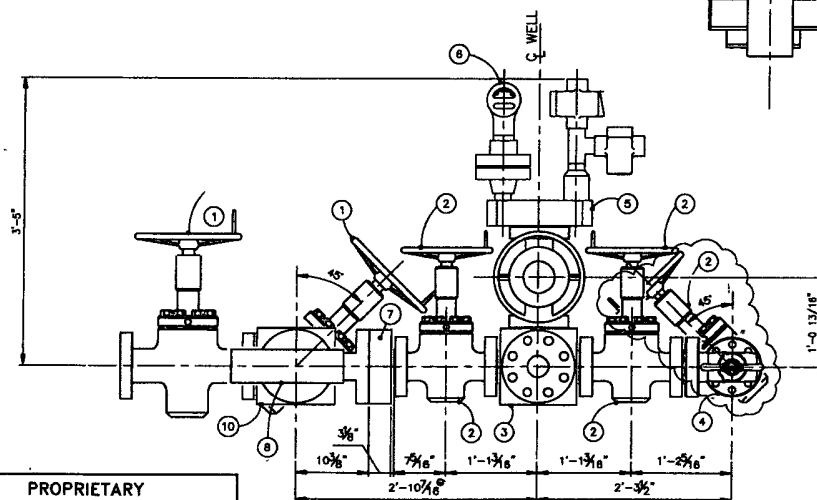
BOP SIDE OUTLET VALVES



PLAN VIEW
CHOKE MANIFOLD



VIEW A-A



ELEVATION VIEW

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. (100-100-100)

ISSUED FOR FABRICATION
October-17-2008
DRAFTSMAN
ENGINEER

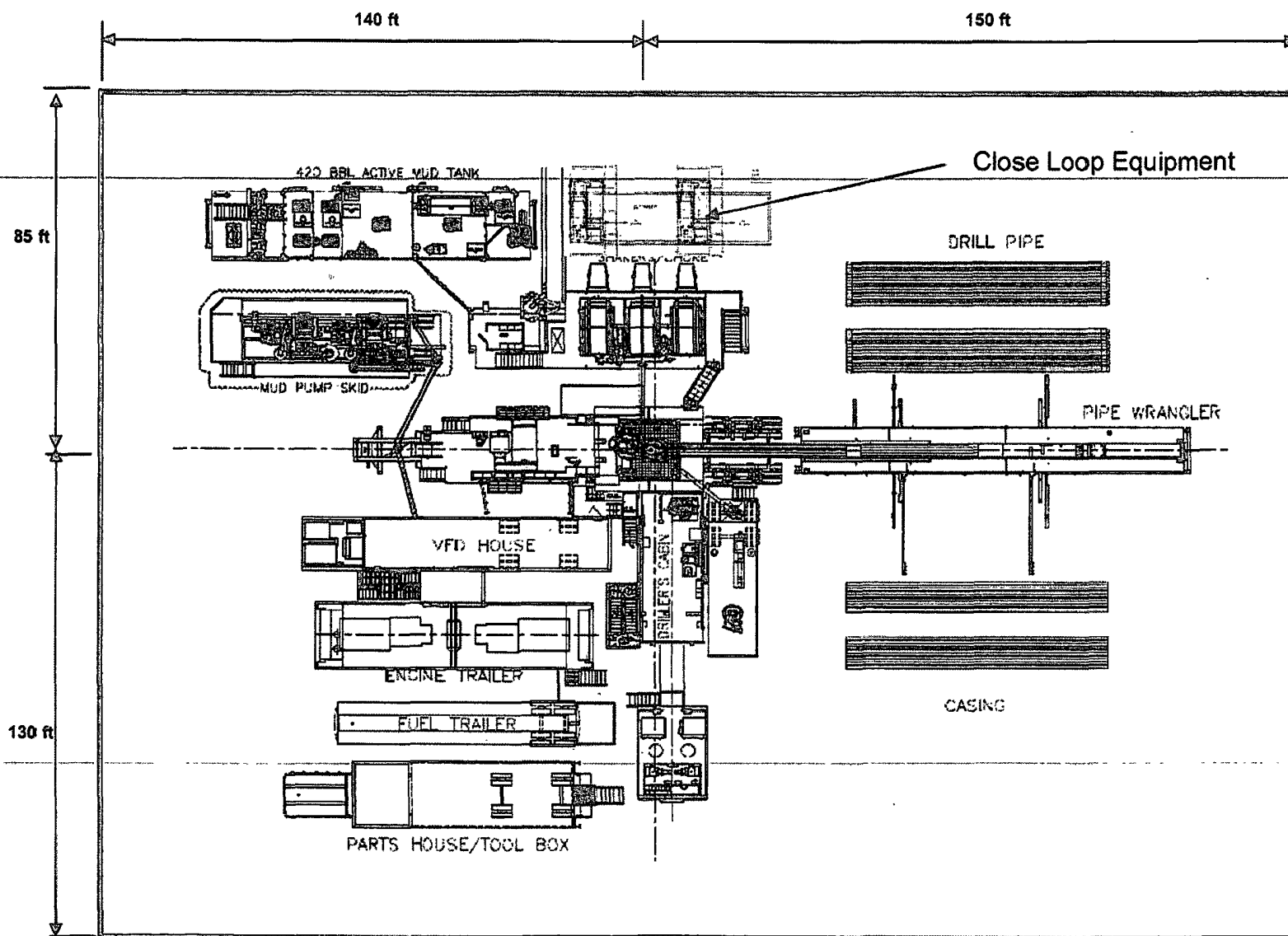
ENGINEERING APPROVAL		DATE	TITLE
△			
△			
△	10-17-08	ADDED QTY (1) ITEM 2 & ITEM 12	MNL
△	08-28-08	REVISED DSA FOR DIFFERENT SIZE WELLS	MNL
△	3/3/08	REVISED CONFIGURATION ADDING ITEMS 7 - 10	ROM
CUSTOMER: OXY SOUTH AMERICA			PROJECT: F&M
DRAWN: JAV			DATE: 01/07/08 DWG. NO.: 00070
			REV: 0

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

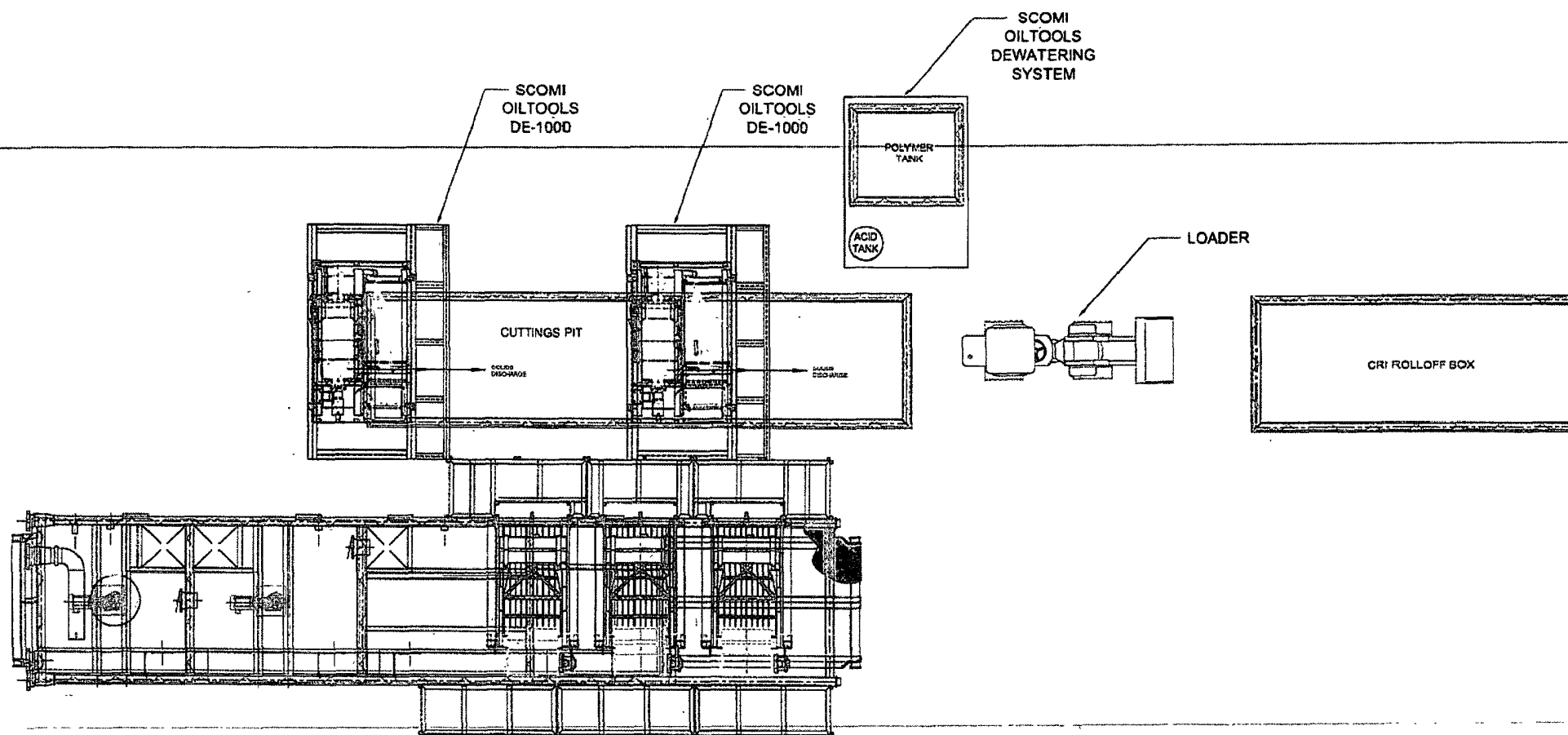
CHOKE MANIFOLD DETAIL ARRANGEMENT

OXY FLEX IV PAD (Closed Loop System)

Revised 05/14/2009



BILL OF MATERIAL			
ITEM	QTY.	DESCRIPTION	LENGTH WEIGHT



										1. ALL STRUCTURAL MATERIAL SHALL BE ASTM - A36. 2. ALL PIPE SCH. 40 MATERIAL SA 106 Gr. B 3. ALL FLANGES SHALL BE SOF. 150F & MATERIAL SA 105. 4. ALL FITTINGS SCH. 40 MATERIAL SHALL BE SA 234 Gr. 120. 5. TANK FABRICATION SHALL BE IN ACCORDANCE WITH API-650.										TITLE: CLOSED LOOP SYSTEM BASIC LAYOUT OXY - H&P - FLEX 4 M										Scomi 131 E. Elm Street Parkway East, Suite 120, Houston, Texas 77060 PHONE: (281) 438-5916 FAX: (281) 438-5959									
										The design, information and comments on this drawing or copies are the exclusive confidential property of Scomi International Limited and are not to be reproduced or disclosed to others by any means, in any form, or transmitted, or translated into a machine language or used for manufacture or other purposes without the written permission of Scomi International Limited. In respect of such permission, solely and directly for the purposes connected with this drawing and any copies that be returned to Scomi International Limited upon request.										DESIGN BY: PDL DATE: 3/20/09 CHECKED BY: GAT DATE:										SCALE: MTL ASAP EXC: D ADD. NO. CHECKED NO. 521S-027 ETR									

OXY Permian

EMERGENCY ACTION PLAN

POTASH AREA

Federal 23

Federal 29

Lost Tank 3 Federal

Lost Tank 4 Federal

Lost Tank 10 Federal

Lost Tank 11 Federal

Mobil Federal

DRILLING/WORKOVER

DRILLING AND CRITICAL WELL OPERATIONS

**Bureau of Land Management
RECEIVED**

MAY 18 2009

**Carlsbad Field Office
Carlsbad, NM**

**DRILLING/WORKOVER
DRILLING AND CRITICAL WELL OPERATIONS
EMERGENCY ACTION PLAN**

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PHONE CONTACTS – OP HES PERSONNEL	13
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PREFACE

An effective and viable Emergency Action Plan (EAP) is intended to provide prior planning and guidance in responding to emergency incidents. The primary considerations in its development are protection of personnel, the public, company and public property, and the environment.

Although the plan addresses varied emergency situations that may occur, it recognizes that flexibility and the use of the organization's knowledge and experience is critical to safe resolution of emergency incidents. Response actions outlined in the plan provide a framework, which may be placed into operation without confusion. These actions should promote quick and decisive actions during the critical initial period and immediately following an emergency. As the response progresses, additional guidelines and procedures may need to be implemented as the situation dictates. In addition, all emergency incidents must be properly reported per the Oxy Incident Reporting and Notification Policy, state and federal requirements, etc.

The following procedures are provided as Oxy Permian's minimum expectations. The Contractor's own procedures may be utilized in lieu of Oxy Permian's, provided that it meets or exceeds the minimum deliverables. It should be understood that this list is not all-inclusive, but the overall plan should assist in lateral application to similar incidents.

This EAP is intended for use on Oxy Drilling/Workover projects and the operations within their area of responsibility, such as drilling, critical well work, etc.

EMERGENCY RESPONSE ACTIVATION AND GENERAL RESPONSIBILITIES

Activation of the Emergency Action Plan

- A. In the event of any emergency situation, all personnel on location should first ensure that the following items are initiated. After that, they should refer to the appropriate Specific Emergency Guidance sections on pages five (5) through nine (9) in this document for further responsibilities:
1. Notify the senior ranking contract representative on site.
 2. Notify Oxy representative in charge.
 3. Notify civil authorities if the Oxy Representative cannot be contacted and the situation dictates.
 4. Perform rescue and first aid as required (without jeopardizing additional personnel).

General Responsibilities

Oxy Permian Personnel:

- A. Drill Site Manager: The Oxy Drilling/Critical Well Servicing Operations Specialist or contract personnel serving in that capacity will serve as Operations Chief Officer for all emergency incidents. The Operations Chief Officer is responsible for:
1. Notification to the Drilling/Workover Team Leader of the incident occurrence.
 2. Notification to the local RMT/PMT leader of the incident occurrence, and the need for the designated local RMT/PMT Incident Commander to act in that capacity for the response effort.
 3. Sole control of all tactical activities directed toward reducing the immediate hazard, establishing situational control and restoring the operations to a non-emergency state.
- B. Local RMT/PMT Designated Incident Commander: The Oxy local RMT/PMT Designated Incident Commander will serve as the overall Incident Commander for the drilling or critical well servicing emergency incident. The Incident Commander is responsible for:
1. Coordinating with the Drilling Manager for notification to the Oxy Crisis Management team of the incident occurrence.
 2. Establishing and managing the overall incident command structure and response from inception through restoration of normal activities in the area.
- C. Drilling/Workover HES Tech: The Drilling/Workover HES Tech (or his designate) is responsible for reporting to the incident as soon as reasonably possible, to provide support to the response effort as required by the Operations Chief Officer or the Incident Commander.

Contract Drilling Personnel will immediately report to their assigned stations and perform their duties as outlined in the appropriate Specific Emergency Guidance sections on pages five (5) through nine (9) in this document.

Other Contractor Personnel will report to the safe briefing area to assist Oxy personnel and civil authorities as requested when it is safe to do so and if they have been adequately trained in their assigned duties.

Civil Authorities (Law Enforcement, Fire, and EMS) will be responsible for:

1. Establishing membership in the Unified Incident Command.
2. As directed by the Incident Commander and the Unified Command, control site access, re-route traffic, and provide escort services for response personnel.
3. Perform all fire control activities in coordination with the Unified Command.
4. Initiate public evacuation plans as instructed by the Incident Commander.
5. Perform rescue or recovery activities with coordination from the Unified Command.
6. Provide medical assistance as dictated by the situation at hand.

WELL CONTROL

The following procedures will be implemented when a loss of primary control is indicated. Indicators of loss of primary control are flow from the well, an increase in pit volume, or when the drilling fluid used to fill the hole on trips is less than the calculated pipe displacement volume. The emergency signal for well control procedures will be a single long blast of the rig air horn.

Kick While Drilling - Procedures And Responsibilities

Driller:

1. Stop the rotary and hoist the kelly above the rotary table.
2. Stop the mud pump(s).
3. Check for flow.
4. If flowing, sound the alarm immediately.
5. Ensure that all crew members fill their responsibilities to secure the well.
6. Record drill pipe and casing shut-in pressures and pit volume increase and begin kill sheet.

Derrickman:

1. Go to BOP/choke manifold area.
2. Open choke line valve on BOP.
3. Signal to Floorman #1 that the choke line is open.
4. Close chokes after annular or pipe rams are closed.
5. Record shut-in casing pressure and pit volume increase.
6. Report readings and observations to Driller.
7. Verify actual mud weight in suction pit and report to Driller.
8. Be readily available as required for additional tasks.

Floorman # 1:

1. Go to accumulator control station and await signal from Derrickman.
2. Close annular preventer and HCR on signal (if available, if not then close pipe rams).
3. Record accumulator pressures and check for leaks in the BOP or accumulator system.
4. Report to Driller, and be readily available as required for additional tasks.

Floorman # 2:

1. Start water on motor exhausts.
2. Notify Contractor Tool Pusher or Rig Manager of well control situation.
3. Check location for ignition sources and extinguish or turn off, and stop any welding in progress.
4. Report to Driller, and be readily available as required for additional tasks.

Floorman # 3:

1. Stand-by with Driller, and be readily available as required for additional tasks.

Tool Pusher/Rig Manager:

1. Notify Oxy Representative and report to rig floor.
2. Review and verify all pertinent information.
3. Communicate information to Oxy Representative, and confer on an action plan.
4. Finalize well control worksheets, calculations and preparatory work for action plan.
5. Initiate and ensure the action plan is carried out.
6. Communicate any changes in well or site conditions, or any indications that the action plan needs to be revised to the Oxy representative.

Oxy Representative:

1. Notify Drilling Superintendent or Drilling Manager and RMT Leader or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

WELL CONTROL (continued)

Kick While Tripping - Procedures and Responsibilities

Driller:

1. Sound the alarm immediately when pipe displacement volume is less than 75% of calculated.
2. Position the upper tool joint just above rotary table and set slips.
3. Check for flow.
4. Ensure that all crew members fill their responsibilities to secure the well.
5. Record drill pipe and casing shut-in pressures and pit volume increase, and begin kill sheets.

Derrickman: (same as while drilling)

Floor Man # 1:

1. Install full opening valve (with help from Floorman #2) in top drill string connection.
2. Tighten valve with make up tongs.
3. Go to accumulator control station and await signal from Derrickman.
4. Close annular preventer and HCR valve on signal (if available, if not then close pipe rams).
5. Record accumulator pressures and check for leaks in the BOP and accumulator system.
6. Report to Driller, and be readily available as required for additional tasks.

Floor Man # 2:

1. Assist installing full opening valve in drill string.
2. Position back-up tongs for valve make-up.
3. Start water on motor exhausts.
4. Notify Contractor Tool Pusher or Rig Manager of well control situation.
5. Check location for ignition sources and extinguish or turn off, and stop any welding in progress.
6. Report to Driller, and be readily available as required for additional tasks.

Floorman # 3, Rig Manager/Tool Pusher, and Oxy Representative: (same as while drilling)

H2S RELEASE

The following procedures and responsibilities will be implemented on activation of the H2S siren and lights.

All Personnel:

1. On alarm, don escape unit (if available) and report to upwind briefing area.

Rig Manager/Tool Pusher:

1. Check that all personnel are accounted for and their condition.
2. Administer or arrange for first aid treatment, and /or call EMTs as needed.
3. Identify two people best suited to secure well and perform rescue, and instruct them to don SCBA.
4. Notify Contractor management and Oxy Representative.
5. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.

Two People Responsible For Shut-in and Rescue:

1. Don SCBA and acquire tools to secure well and perform rescue, i.e., wrenches, retrieval ropes, etc.
2. Utilize the buddy system to secure well and perform rescue(s).
3. Return to the briefing area and stand by for further instructions.

All Other Personnel:

1. Remain at the briefing area and await further instructions - do not leave unless instructed.

Oxy Representative:

1. Remain at the briefing area, assess and monitor personnel and overall situation for hazards or conditions that might warrant a change in the action plan.
2. Notify Drilling Superintendent or Drilling Manager and RMT Leader or Local Incident Commander, and Police, Fire Department, or other local emergency services as required.

PERSONAL INJURY OR DEATH

Call for assistance, and then administer first aid for the injured. Treatment should be prioritized by life-threatening conditions.

- A. Do not move injured personnel unless they are in imminent danger. An ambulance should be summoned for any injury that appears to be serious.

FIRE OR EXPLOSION

Fire Fighting Philosophy

It is Oxy Permian's intent that Oxy and contract personnel will only extinguish incipient or beginning stage fires and perform or assist in initial non-threatening rescue operations. The responding fire department will be given primacy when they arrive to control a fire on any Oxy property. Any Oxy or contract employee who participates in a fire response must be fully trained and qualified as such, and must be utilizing appropriate Personal Protective Equipment.

Contract and Oxy Personnel Deployment

In the event of a fire or explosion all personnel will report to the safe briefing area. The Senior Contract Representative on site will designate personnel for rescue as appropriate depending on their qualifications and the risks of the rescue. Any rescue which involves significant risk to those performing the rescue should be deferred to professional response personnel.

No personnel will leave the area without direction / permission from the Senior Contract Representative on-site.

The Senior Contract Representative on site will notify local emergency response personnel as required, along with the Contract Company management and the Oxy Representative as soon as reasonably possible.

SPILLS

In the event of a significant spill of any substance, the person discovering it should immediately notify the rig supervisor and the Oxy Representative. Personnel onsite should **NOT** attempt identification, control or containment unless they are absolutely sure of the product spilled, are fully aware of the hazard characteristics, and are equipped with the appropriate personal protective equipment.

HYDROCARBON VAPOR CLOUD RELEASE

Upon discovery of a Hydrocarbon Vapor Cloud (NGL) release, take immediate safety precautions to protect any company personnel or others that might be in the area. Other emergency actions should be initiated only by trained expert personnel from the appropriate pipeline company.

The following guidelines should be followed:

1. Immediately notify the rig supervisor and the Oxy Representative.
2. Determine wind direction, and evacuate upwind or at 90 degrees to the release.
3. Maintain a safe distance from the cloud.
4. Render first aid and call for an ambulance as necessary.
5. Attempt to warn approaching individuals of the hazard.

BOMB THREAT

In the event of a bomb threat, the person receiving the call, on or off site, should try to get as much information as possible from the caller. The person receiving the call should immediately contact the supervisor in charge. Evacuation of the field should be considered at this time. Roadblocks may need to be installed. The supervisor in charge should make all appropriate contacts.

The Supervisor contacted should:

- a. Realize that every bomb threat is serious.
- b. Notify Corporate Security
- c. Inform Police/Sheriff's Department and Fire Department
- d. Contact RMT Leader or his designated relief to coordinate search efforts with the assistance of the local law enforcement agencies.

BOMB THREAT CHECKLIST

Date _____ Name of person taking call _____ Phone # call came on _____

FILL OUT COMPLETELY IMMEDIATELY AFTER BOMB THREAT

1. When is the bomb set to explode? _____
2. Where is the bomb located? _____
3. What does the bomb look like? _____
4. What type of bomb is it? _____
5. What will cause the bomb to explode? _____
6. Did the caller place the bomb? _____
7. Why did the caller place the bomb? _____
8. What is the caller's name and address? _____

Callers: Sex _____ Age _____ Race _____ Length of call _____

DESCRIPTION OF CALLER'S VOICE (Check all that apply)

<input type="checkbox"/> Calm	<input type="checkbox"/> Rapid	<input type="checkbox"/> Laughing	<input type="checkbox"/> Lisp	<input type="checkbox"/> Disguised
<input type="checkbox"/> Angry	<input type="checkbox"/> Crying	<input type="checkbox"/> Raspy	<input type="checkbox"/> Accent	<input type="checkbox"/> Familiar? Who did
<input type="checkbox"/> Excited	<input type="checkbox"/> Normal	<input type="checkbox"/> Deep	<input type="checkbox"/> Stutter	<input type="checkbox"/> it sound like?
<input type="checkbox"/> Slow	<input type="checkbox"/> Distinct	<input type="checkbox"/> Ragged	<input type="checkbox"/> Deep	<input type="checkbox"/> Deep Breathing
<input type="checkbox"/> Loud	<input type="checkbox"/> Slurred	<input type="checkbox"/> Nasal	<input type="checkbox"/> Clearing Throat	

BACKGROUND SOUNDS:

<input type="checkbox"/> Street	<input type="checkbox"/> House	<input type="checkbox"/> Factory	<input type="checkbox"/> Music	<input type="checkbox"/> Local Call
<input type="checkbox"/> Noises	<input type="checkbox"/> Noises	<input type="checkbox"/> Machinery	<input type="checkbox"/> Static	<input type="checkbox"/> Long Distance
<input type="checkbox"/> Voices	<input type="checkbox"/> Motor	<input type="checkbox"/> Animals	<input type="checkbox"/> PA System	<input type="checkbox"/> Phone Booth
<input type="checkbox"/> Office	<input type="checkbox"/> Clear	<input type="checkbox"/> Other		

THREAT LANGUAGE:

<input type="checkbox"/> Well-Spoken	<input type="checkbox"/> Foul	<input type="checkbox"/> Incoherent	<input type="checkbox"/> Irrational	<input type="checkbox"/> Taped
<input type="checkbox"/> Message Read by Threat Maker				

REMARKS:

NATURAL DISASTERS

Tornadoes

These general procedures should be followed by everyone seeking shelter from a severe storm or tornado:

Indoors:

1. Protect yourself from flying glass and debris.
2. Take refuge near the core of the building for maximum protection.
3. Do not smoke while taking shelter.
4. Shut all doors to offices, if time permits.

In the field:

1. Seek cover in a low-lying area, such as a culvert, ditch, pit, or water injection valve box.
2. Get out of and away from your vehicle.
3. Stay away from power lines.
4. Cover your head with your arms and clothing.

Thunderstorms

Indoors:

1. Avoid water pipes, sinks, showers, tubs, etc.
2. Stay away from doors and windows.
3. Do not use the telephone.
4. Take off head sets.
5. Turn off, unplug, and stay away from appliances, computers, power tools, & TV sets.

In the field:

1. Avoid water.
2. Avoid high ground and open spaces.
3. Avoid all metal objects including electric wires, fences, machinery, motors, power tools, etc. Unsafe places include underneath canopies, small picnic or rain shelters, or near trees. Where possible, find shelter in a substantial building or in a fully enclosed metal vehicle such as a car, truck or a van with the windows completely shut. If lightning is striking nearby when you are outside, you should:
 - a. Crouch down, feet together, hands over ears.
 - b. Avoid proximity (minimum of 15 ft.) to other people.
4. SUSPEND ACTIVITIES for 30 minutes after the last observed lightning or thunder.

PUBLIC RELATIONS

Oxy recognizes that the news media have a legitimate interest in incidents at Oxy facilities that could affect the public. It is to the company's benefit to cooperate with the news media when incidents occur because these media are our best liaison with the public.

Our objective is to see that all reports of any emergency are factual and represent the company's position fairly and accurately. Cooperation with news media representatives is the most reliable guarantee that this objective will be met.

All contract and Oxy employees are instructed **NOT** to make any statement to the media concerning the emergency incident. If a media representative contacts any employee, they should refer them to the designated Emergency Command Center where they should contact the Incident Commander or his designated relief for any information concerning the incident.

Drilling Dept. Emergency Contact list

Drilling Manager Scott Cooper 713-366-5325 office
281-352-5865 cell

Drilling Superintendent Festus Hagan 713-366-5946 office
432-894-5352 cell

Drilling Eng. Supervisor Richard Jackson 713-215-7235 office
281-467-6383 cell

HES Specialist-Drilling Brian Bielss 432-685-5719 office
432-813-6335 cell

Drilling Coordinator Drue Dunaway 432-685-5715 office
432-556-3288 cell

Drilling Coordinator Kevin Videtich 806-592-6213 office
806-891-2000 cell

OXY Permian Incident Reporting Phone List**OXY Permian Crisis Team Hotline Notification****(713) 935-7210**

Person	Location	Office Phone	Cell/Mobile Phone
Asset Management-Operations Areas			
OXY Permian President & General Manager: Ken Dillon	Houston	(713) 366-5140	(661) 333-9315
Operations Support Manager: Rick Callahan	Houston	(713)-215-7578	(281) 389-1141
Asset Development Manager-Jeff Simmons	Houston	(713) 366-5124	(713) 560-8073
Public Affairs: Stacey Crews	Houston	(713) 366-5304	(713) 416-8381

Operations South-Frontier

RMT Lead Frontier-Barry Beresik	Houston	(713) 366-5016	(713) 560-8061
RMT Lead South-Keith Brown	Houston	(713) 366-5354	(713) 264-1114
Surface Operations Team Lead-Bill Elliott	Midland	(432) 685-5845	(432) 557-6736
Well Operations Team Lead-Leamon Hood	Midland	(432) 685-5794	(432) 634-4486
Well Servicing Team Lead-Vicki Hollub	Houston	(713) 215-7332	(713) 885-6347
WST Coord Frontier-Kirk Hobbs	Midland	(432) 685-5951	(432) 634-3890
WST Coord South-Robert Ricks	Midland	(432) 685-5821	(432) 634-8791
NM Frontier Oper Coord -Larry Sammons	Carlsbad	(575) 887-8337	(575) 390-8397
NM-South Oper Coord-Gilbert Williams	Seminole	(432) 385-2778	(806) 215-0009
NM Frontier Oper Coord -Van Barton	Carlsbad	(575) 887-8337	
Completion Specialist-Dale Redding	Hobbs	(432) 385-3206	

HES Staff & Areas of First Contact Support

HES Manager: John Kirby	Houston	(713) 366-5460	(281) 974-9523
Environmental Engineer, Air: Peggy Waisanen	Midland	(432) 685-5673	(432) 894-1968
Administrative Assistant: Judy Browning	Midland	(432) 685 5692	(432) 661 1048
Environmental Consultant: Dennis Newman	Houston	(713) 366-5485	(713) 560-8060
Safety Engineer: Derek Purvis	Houston	(713) 366-5932	(713) 582-1848
Pipeline Safety: Don Bales	Midland	(432) 685-5844	(432) 894-1960
HES Lead-Pete Maciula	Midland	(432) 685-5667	(432) 557-2450
HES Specialist: Eddie Gonzales	Midland	(432) 685-5929	(432) 556-6790
HES Specialist-Drilling: Robert Lovelady	Midland	(432) 685-5630	(432) 813-6332

HES Tech & Area of Responsibility

Wasson San Andres RMT: Mark Andersen	Denver City	(806) 592-6299	(806) 215-0077
Hobbs RMT: Steve Bishop	Hobbs	(575) 397-8251	(575) 390-4784
Frontier-New Mexico: Rick Kerby	Carlsbad	(575) 887-8337	(575) 631-4972
South-New Mexico-CJ Summers	Hobbs	(575) 397-8236	(575) 390-9228

Regulatory Affairs

Lead-Liz Bush-Ivie	Houston	(713) 366-5303	832-474-3701
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Regulatory Analyst-David Stewart	Midland	(432) 685-5717	
Regulatory Analyst-Elizabeth Casbeer	Midland	(432) 685-5755	
Regulatory Analyst-Mark Stephens	Houston	(713) 366-5158	

DOT-Pipeline Response Numbers

N. Hobbs Unit: Steve Bishop	Hobbs	(575) 397-8251	(575) 390-4784
Wasson PMT: Todd King	Denver City	(806) 592-6274	(806) 215-0183
Bravo/Slaughter PMT: Gary Polk	Levelland	(806) 229-9708	(806) 638-2425
Cogdell RMT: Dean Peevy	Cogdell	(325) 573-7272	(325) 207-3367
Sharon Ridge: Carl Morales	Sharon Ridge	(325) 573-6341	(325) 207-3374
All DOT Pipeline Support: Donald Bales	Midland	(432) 685-5844	(432) 894-1960

OOGC HES Contacts

Manager HES: Wes Scott	OOGC – Houston	(713) 215-7171	(713) 203-4050
Worldwide Safety Mgr: Greg Hardin alternate	OOGC – Houston	(713) 366-5324	(713) 560-8037
Worldwide Environ. Mgr: Ravi Ravishankar	OOGC – Houston	(713) 366-5039	(832) 863-2240

OOGC Risk Management

Jim Garrett	Los Angeles	(310) 443-6588	(310) 710-3233
Greg LaSalle, alternate	Los Angeles	(310) 443-6542	(310) 710-2255

OSI

Workers Comp. Claim Manager: Steve Jones	Dallas	(972) 404-3542	
Workers Comp. Claims: Mark Ryan	Dallas	(972) 404-3974	
Auto Claims: Steve Jones	Dallas	(972) 404-3542	

Gallagher Bassett

Workers Comp. & Property Damage Claims-OXY Permian Ltd.: Danny Ross		(972) 728-3600 X252	(800) 349-8492
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Axiom Medical Consulting

Medical Case Management		(877) 502-9466	
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OXY Permian Legal

Tom Janiszewski	Houston	(713) 366-5529	(713) 560-8049
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Human Resources

H.R. Manager: Barbara Bernhard	Houston	(713) 215-7150	(713) 702-7949
H.R. Consultant: Amy Thompson	Houston	(713) 215-7863	(281) 799-7348
H.R. Consultant: Laura Matthews	Houston	(713) 366-5137	(713) 569-0386
H.R. Consultant: Jill Williams	Midland	(432) 685-5818	(432) 661-4581

Corporate Security

Frank Zapalac	Houston	(713) 215-7157	(713) 829-5753
Hugh Moreno, alternate	Houston	(713) 215-7162	(713) 817-3322

Regulatory Agencies

Bureau of Land Management	Carlsbad, NM	(575) 887-6544	
Bureau of Land Management	Hobbs, NM	(575) 393-3612	
Bureau of Land Management	Roswell, NM	(575) 393-3612	
Bureau of Land Management	Santa Fe, NM	(505) 988-6030	
DOT Jurisdictional Pipelines-Incident Reporting New Mexico Public Regulation Commission	Santa Fe, NM	(505) 827-3549 (505) 490-2375	
DOT Jurisdictional Pipelines-Incident Reporting Texas Railroad Commission	Austin, TX	(512) 463-6788	
EPA Hot Line	Dallas, Texas	(214) 665-6444	
Federal OSHA, Area Office	Lubbock, Texas	(806) 472-7681	
National Response Center	Washington, D. C.	(800) 424-8802	
National Infrastructure Coordinator Center		(202) 282-9201	
New Mexico Air Quality Bureau	Santa Fe, NM	(505) 827-1494	
New Mexico Oil Conservation Division	Artesia, NM	(575) 748-1283	
New Mexico Oil Conservation Division	Hobbs, NM	(575) 393-6161	
New Mexico Oil Conservation Division	Santa Fe, NM	(505) 471-1068	
New Mexico OCD Environmental Bureau	Santa Fe, NM	(505) 827-7152 (505) 476-3470	
New Mexico Environmental Department	Hobbs, NM	(575) 827-9329	
NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222	
Railroad Commission of TX	District 8, 8A Midland, TX	(432) 684-5581	
Texas Emergency Response Center	Austin, TX	(512) 463-7727	
TCEQ Air	Region 2 Lubbock, TX	(806) 796-3494	
TCEQ Water/Waste/Air	Region 7 Midland, TX	(432) 570-1359	

Medical Facilities

Artesia General Hospital	Artesia, NM	(575) 748-3333	
Guadalupe Medical Center	Carlsbad, NM	(575) 887-6633	
Lea Regional Hospital	Hobbs, NM	(575) 492-5000	
Medical Arts Hospital	Lamesa, TX	(806) 872-2183	
Medical Center Hospital	Odessa, TX	(432) 640-4000	
Memorial Hospital	Seminole, TX	(432) 758-5811	
Midland Memorial Hospital	Midland, TX	(432) 685-1111	
Nor-Lea General Hospital	Lovington, NM	(575) 396-6611	
Odessa Regional Hospital	Odessa, TX	(432) 334-8200	
St. Mary's Hospital	Lubbock, TX	(806) 796-6000	
Union County General Hospital	Clayton, NM	(575) 374-2585	
University Medical Center	Lubbock, TX	(806) 743-3111	

Local Emergency Planning Comm.

Richard H. Dolgener	Andrews County, TX	(432) 524-1401	
Joel Arnwine	Eddy County, NM	(575) 887-9511	
County Judge Judy House	Gaines County, TX	(432) 758-5411	
Myra Sande	Harding County, NM	(575) 673-2231	
Jerry Reynolds	Lea County, NM	(575) 396-8600	(575) 399-2376

Royce Creager	Loving County, TX	(432) 377-2231	
Mike Cherry	Quay County, NM	(575) 461-2476	
Della Wetsel	Union County, NM	(575) 374-8896	
Bonnie Leck	Winkler County, TX	(432) 586-6658	
Carl Whitaker	Yoakum County, TX	(806) 456-7491	

Law Enforcement - Sheriff

Andrews Cty Sheriff's Department	Andrews County	(432) 523-5545	
Eddy Cty Sheriff's Department	Eddy County (Artesia)	(575) 746-2704	
Eddy Cty Sheriff's Department	Eddy County (Carlsbad)	(575) 887-7551	
Gaines Cty Sheriff's Department	Gaines County (Seminole)	(432) 758-9871	
Lea Cty Sheriff's Department	Lea County (Eunice)	(575) 384-2020	
Lea Cty Sheriff's Department	Lea County (Hobbs)	(575) 393-2515	
Lea Cty Sheriff's Department	Lea County (Lovington)	(575) 396-3611	
Union Cty Sheriff's Department	Union County (Clayton)	(505) 374-2583	
Yoakum City Sheriff's Department	Yoakum Co.	(806) 456-2377	

Law Enforcement - Police

Andrews City Police	Andrews, TX	(432) 523-5675	
Artesia City Police	Artesia, NM	(575) 746-2704	
Carlsbad City Police	Carlsbad, NM	(575) 885-2111	
Clayton City Police	Clayton, NM	(575) 374-2504	
Denver City Police	Denver City, TX	(806) 592-3516	
Eunice City Police	Eunice, NM	(575) 394-2112	
Hobbs City Police	Hobbs, NM	(575) 397-9265 (575) 393-2677	
Jal City Police	Jal, NM	(575) 395-2501	
Lovington City Police	Lovington, NM	(575) 396-2811	
Seminole City Police	Seminole, TX	(432) 758-9871	

Law Enforcement - FBI

FBI	Albuquerque, NM	(505) 224-2000	
FBI	Midland, TX	(432) 570-0255	

Law Enforcement - DPS

NM State Police	Artesia, NM	(575) 746-2704	
NM State Police	Carlsbad, NM	(575) 885-3137	
NM State Police	Eunice, NM	(575) 392-5588	
NM State Police	Hobbs, NM	(575) 392-5588	
NM State Police	Clayton, NM	(575) 374-2473; 911	
TX Dept of Public Safety	Andrews, TX	(432) 524-1443	
TX Dept of Public Safety	Seminole, TX	(432) 758-4041	
TX Dept of Public Safety	Yoakum County TX	(806) 456-2377	

Firefighting & Rescue

Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113	
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Andrews	Andrews, TX	(432) 523-4820 (432) 523-3111	
Artesia	Artesia, NM	(575) 746-5051	
Carlsbad	Carlsbad, NM	(575) 885-3125	
Clayton	Clayton, NM	(575) 374-2435	
Denver City	Denver City, TX	(806) 592-5426	
Eunice	Eunice, NM	(575) 394-2111	
Hobbs	Hobbs, NM	(575) 397-9308	
Jal	Jal, NM	(575) 395-2221	
Kermit	Kermit, TX	(432) 586-3468	
Lovington	Lovington, NM	(575) 396-2359	
Maljamar	Maljamar, NM	(575) 676-4100	
Monahans	Monahans, TX	(432) 943-4343	
Nara Visa	Nara Visa, NM	(575) 461-3300	
Pecos	Pecos, TX	(432) 445-2421	
Seminole	Seminole, TX	(432) 758-3676 (432) 758-9871	

Ambulance

Amistad/Rosebud	Amistad/Rosebud, NM	(575) 633-9113	
Andrews Ambulance	Andrews, TX	(432) 523-5675	
Artesia Ambulance	Artesia, NM	(575) 746-2701	
Carlsbad Ambulance	Carlsbad, NM	(575) 885-2111; 911	
Clayton, NM	Clayton, NM	(575) 374-2501	
Denver City Ambulance	Denver City, TX	(806) 592-3516	
Eunice Ambulance	Eunice, NM	(575) 394-3258	
Hobbs, NM	Hobbs, NM	(575) 397-9308	
Jal, NM	Jal, NM	(575) 395-2501	
Lovington Ambulance	Lovington, NM	(575) 396-2811	
Nara Visa, NM	Nara Visa, NM	(575) 461-3300	
Pecos Ambulance	Pecos, TX	(432) 445-4444	
Seminole Ambulance	Seminole, TX	(432) 758-8816 (432) 758-9871	

Medical Air Ambulance Service

AEROCARE - Methodist Hospital	Lubbock, TX	(800) 627-2376	
San Angelo Med-Vac Air Ambulance	San Angelo, TX	(800) 277-4354	
Southwest Air Ambulance Service	Stanford, TX	(800) 242-6199	
Southwest MediVac	Snyder, TX	(800) 242-6199	
Southwest MediVac	Hobbs, NM	(800) 242-6199	
Odessa Care Star	Odessa, TX	(888) 624-3571	
NWTH Medivac	Amarillo, TX	(800) 692-1331	

SURFACE USE PLAN OF OPERATIONS

Operator Name	OXY USA Inc.	16696
Lease Name/Number	Federal 29 #5	304820 Federal Lease No. NM054035
Pool Name/Number:	Sand Dunes Delaware, West	53815
Surface Location:	330 FNL 2460 FWL NENW (C)	Sec 29 T23S R31E
Bottom Hole Location:	332 FNL 376 FWL NWNW(D)	Sec 29 T23S R31E

1. Existing Roads

- A copy of a USGS "Los Medanos, N.M." quadrangle map is attached showing the proposed location. The well location is spotted on this map, which shows the existing road system.
- The well was staked by Terry J. Asel, Certificate No. 15079 on 2/26/09, certified 5/14/09.
- Directions to Location: From the the intersection of SH 128 and CR 798, go northwest on SH 128 for 3.9 miles. Turn left and go south on lease road for 0.4 miles. Turn right and go west .6 miles, turn left and go southeast .2 miles, turn left on proposed road and go east for 70 feet to location.

2. New or Reconstructed Access Roads:

- A new access road will be built. The access road will run approximately 70' from an existing road to the location. See Exhibit #2.
- The maximum width of the road will be 15'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- No cattle guards, grates or fence cuts will be required. No turnouts are planned.

3. Location of Existing Wells:

Existing wells within a one mile radius of the proposed well are shown on Exhibit #3.

4. Location of Existing and/or Proposed Production Facilities.

- In the event the well is found productive, the Federal 29 tank battery would be utilized and the necessary production equipment will be installed at the well site. See proposed Production Facilities Layout diagram, Exhibit #4.
- If necessary, electric power poles will be set along side of the access road.
- All flowlines will adhere to API Standards, Exhibit #4

5. Location and types of Water Supply.

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water

stations in the area and will be hauled to location by transport truck using existing and proposed roads.

6. Construction Materials:

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility, see C-144 CLEZ.
 1. Solids - CRI
 2. Liquids - Laguna
- b. All trash, junk, and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies:
TFH Ltd. - Laguna SWD Facility

8. Ancillary Facilities: None needed

9. Well Site Layout

Exhibit #5 shows the proposed well site layout with dimensions of the pad layout and equipment location.
V-Door-South Tanks-East

10. Plans for Surface Reclamation:

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography.
- b. If the well is deemed commercially productive, caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the area will be seeded with an approved BLM mixture to re-establish vegetation.

11. Surface Ownership

The surface is owned by the U.S. Government and is administered by the BLM. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The surface is leased to: Stacey Mills, LLC P.O. Box 1358 Loving, NM 88256.

They will be notified of our intention to drill prior to any activity.

12. Other Information

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial. native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of the proposed well site.

- d. A Cultural Resources Examination - this well is located in the Permian Basin MOA.

Pad + 1/4 mile road	<u>\$1,300.00</u>	\$0.15/ft over 1/4 mile	<u>\$0.00</u>	<u>\$1,300.00</u>
Pipeline - up to 1mile	<u>\$1,200.00</u>	\$250 per 1/4 mile	<u>\$0.00</u>	<u>\$1,200.00</u>
Electric Line - up to 1mile	<u>\$600.00</u>	\$0.17/ft over 1 mile	<u>\$0.00</u>	<u>\$600.00</u>
Total	<u>\$3,100.00</u>		<u>\$0.00</u>	<u>\$3,100.00</u>

13. Bond Coverage:

Bond Coverage is Nationwide Bond No. ES0136.

Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below.

Larry Sammons
Production Coordinator
P.O. Box 1988
Carlsbad, NM 88220
Office Phone: 505-887-8337
Cellular: 575-390-8397

Van Barton
Production Coordinator
P.O. Box 1988
Carlsbad, NM 88220
Office Phone: 505-887-8337
Cellular: 575-706-7671

Fetus Hagan
Drilling Superintendent
P.O. Box 4294
Houston, TX 77210
Office Phone: 713-366-5946
Cellular: 281-460-4291

Calvin (Dusty) Weaver
Operation Specialist
P.O. Box 50250
Midland, TX 79710
Office Phone: 432-685-5723
Cellular: 806-893-3067

Richard Jackson
Drilling Engineering Supervisor
P.O. Box 4294
Houston, TX 77210
Office Phone: 713-215-7235
Cellular: 281-467-6383

Carmilo Arias
Drilling Engineer
P.O. Box 4294
Houston, TX 77210
Office Phone: 713-366-5953
Cellular: 281-468-4652

OXY USA Inc. - Potash Area Well Location Information		
Well Name	V-Door	Pad Size
Federal 23 No. 4	West	290' x 180'
Federal 23 No. 6	East	290' x 180'
Federal 23 No. 9	West	290' x 180'
Federal 23 No. 16	West	290' x 180'
Federal 29 No. 1	South	290' x 230'
Federal 29 No. 5	South	(Both wells are on same pad)
Mobil Fed. No. 2	East	290' x 180'
Mobil Fed. No. 3	East	290' x 180'
Mobil Fed. No. 10	East	290' x 180'
Mobil Fed. No. 9	East	290' x 180'
Lost Tank 4 Fed No. 11	East	290' x 180'
Lost Tank 4 Fed No. 12	East	330' x 290'
Lost Tank 4 Fed No. 13	East	(All four wells are on same pad)
Lost Tank 4 Fed No. 18	East	
Lost Tank 4 Fed No. 19	East	
Lost Tank 4 Fed No. 9	North	290' x 180'
Lost Tank 4 Fed No. 14	North	330' x 290'
Lost Tank 4 Fed No. 15	North	(All four wells are on same pad)
Lost Tank 4 Fed No. 16	North	
Lost Tank 4 Fed No. 17	North	
Lost Tank 4 Fed No. 8	East	290' x 180'
Lost Tank 3 Fed No. 21	South	290' x 180'
Lost Tank 3 Fed No. 22	East	290' x 180'
Lost Tank 3 Fed No. 20	West	290' x 180'
Lost Tank 3 Fed No. 14	East	290' x 180'
Lost Tank 3 Fed No. 16	Northwest	330' x 290'
Lost Tank 3 Fed No. 18	Northwest	(All four wells are on same pad)
Lost Tank 10 Fed No. 2	Northwest	
Lost Tank 10 Fed No. 3	Northwest	
Lost Tank 3 Fed No. 24	West	380' x 290'
Lost Tank 10 Fed No. 1	West	(All five wells are on same pad)
Lost Tank 10 Fed No. 4	West	
Lost Tank 10 Fed No. 5	West	
Lost Tank 11 Fed No. 1	West	

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

Attention: Linda Denniston

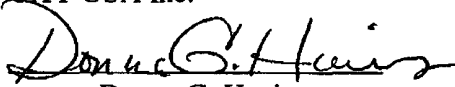
RE: Federal 29# 5
Eddy County, New Mexico

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

OPERATOR NAME: OXY USA Inc.
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.:	NMNM 0545035
LEGAL DESCRIPTION:	
Surface Location:	330' FNL & 2,460' FWL (NENW)
Bottom hole Location:	332' FNL & 376' FWL (NWNW)
	Section 29-T23S-R31E
	Eddy County, New Mexico
FORMATIONS:	None
BOND COVERAGE:	Nationwide
BLM BOND FILE NO.:	ES 0136

AUTHORIZED SIGNATURE: OXY USA Inc.

Donna G. Havins

TITLE: Land Negotiator

DATE: May 14, 2009

cc: David Stewart

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 14th day of May, 2009.

Name: Denise Woods Denise Woods
Position: RMT Leader _____
Address: 5 Greenway Plaza, Ste. 110, Houston, TX 77046 _____
Telephone: 713-215-7154 _____
E-mail: (optional): denise_woods@oxy.com _____
Company: OXY USA Inc. _____
Field Representative (if not above signatory): Larry Sammons _____
Address (if different from above): 102 S. Main St., Carlsbad, NM 88220 _____
Telephone (if different from above): 575-887-8337 _____
E-mail (if different from above): larry_sammons@oxy.com _____



OXY USA Inc.

A subsidiary of Occidental Petroleum Corporation

5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521
P.O. Box 27570, Houston, Texas 77227-7570
Phone 713.215.7000

July 13, 2009

Ken Gray
Devon Energy Production Company, LP
20 North Broadway
Oklahoma City, OK 73102

RE: **Federal 29 #5**
330' FNL & 2460' FWL (surface location) (NE NW)
332' FNL & 376' FWL (bottom hole location) (NW NW)
Section 29-23S-31E
Eddy County, New Mexico

Gentlemen:

The location for the directional Federal 29 #5 well 330' FNL and 2460' FWL of Section 29-23S-31E, Eddy County, NM is an unorthodox location where the well penetrates portions of the Delaware formation.

OXY is filing an application with the New Mexico Oil Conservation Division (OCD) for administrative approval of this non-standard location (NSL). The owners of the Mobil Federal lease covering the E/2 of Section 29-23S-31E are the only affected parties entitled to notice. Your execution of this waiver will facilitate administrative approval of OXY's NSL application. OXY requests that you waive any protest or objection to the NSL for the referenced well.

Your favorable consideration and early reply will be appreciated. Please return a signed copy of this waiver letter to me at the address shown above.

Very truly yours,

OXY USA Inc.

Donna G Havins
Land Negotiator
Dir: (713) 215-7232
Cell: (713) 202-7559
Fax: (713) 985-1818
email: donna_havins@oxy.com

Devon Energy Production Company, LP hereby waives any protest or objection to the non-standard location of the Federal 29 #5 well.

Devon Energy Production Company, LP

By

Dated

7/21/09



OXY USA Inc.

A subsidiary of Occidental Petroleum Corporation

5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521
P.O. Box 27570, Houston, Texas 77227-7570
Phone 713.215.7000

July 13, 2009

Randy Howard
Southwest Royalties Inc.
#6 Desta Drive, Suite 2100
Midland, TX 79705

RE: **Federal 29 #5**
330' FNL & 2460' FWL (surface location) (NE NW)
332' FNL & 376' FWL (bottom hole location) (NW NW)
Section 29-23S-31E
Eddy County, New Mexico

Gentlemen:

The location for the directional Federal 29 #5 well 330' FNL and 2460' FWL of Section 29-23S-31E, Eddy County, NM. is an unorthodox location where the well penetrates portions of the Delaware formation.

OXY is filing an application with the New Mexico Oil Conservation Division (OCD) for administrative approval of this non-standard location (NSL). The owners of the Mobil Federal lease covering the E/2 of Section 29-23S-31E are the only affected parties entitled to notice. Your execution of this waiver will facilitate administrative approval of OXY's NSL application. OXY requests that you waive any protest or objection to the NSL for the referenced well.

Your favorable consideration and early reply will be appreciated. Please return a signed copy of this waiver letter to me at the address shown above.

Very truly yours,

OXY USA Inc.

Donna G Havins
Land Negotiator
Dir: (713) 215-7232
Cell: (713) 202-7559
Fax: (713) 985-1818
email: donna_havins@oxy.com

Southwest Royalties Inc hereby waives any protest or objection to the non-standard location of the Federal 29 #5 well.

Southwest Royalties Inc.

By

Randy Howard
Vice President

Dated

7/15/09

**Service List – NSL
OXY USA Inc.
Federal 29 #5
Sec 29 T23S R31E**

United States Dept of Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292

New Mexico Oil Conservation Division
1301 W. Grand Ave.
Artesia, NM 88210

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Affected Offset Parties:

Devon Energy Production Co., LP
Attn: Mr. Ken Gray
20 N. Broadway
Oklahoma City, OK 73102

Southwest Royalties Inc.
Attn: Mr. Randy Howard
6 Desta Drive, Suite 2100
Midland, TX 79705



OXY USA Inc.

PO Box 50250
Midland, TX 79710-0250

July 23, 2009

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Devon Energy Production Co., LP
Attn: Ken Gray
20 N. Broadway
Oklahoma City, OK 73102

Re: *Application for Administrative Approval of Non-Standard Location –
Sand Dunes Delaware, West
Federal 29 #5
Surface/Penetration Point – 330 FNL 2460 FWL Ut C
Bottom Hole – 332 FNL 376 FWL Ut D
Section 29 T23S R31E
Eddy County, New Mexico*

Ladies and Gentlemen:

Enclosed is a copy of an application, filed with the New Mexico Oil Conservation Division by OXY USA Inc., requesting administrative approval under Rule 104 (F) of an unorthodox well location. As an affected party, notice is being provided to you pursuant to Rule 104 (F). The well is located in the NENW/4 of Section 29 T23S R31E, Eddy County, NM. If you object to the well's location, you must notify the Division in writing no later than 20 days from the date the application is received by the NMOCD (1220 South St. Francis Drive, Santa Fe, NM 87505; Attention: Richard Ezeanyim).

If you need any additional information, please call me at 432-685-5717.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Stewart", written over a horizontal line.

David Stewart
Sr. Regulatory Analyst
OXY USA WTP LP

Attachments

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 		<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>A. Signature: X</p> </div> <div style="width: 35%;"> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee </div> </div>	
<p>1. Article Addressed to:</p> <p>UNITED STATES DEPT OF INTERIOR BUREAU OF LAND MANAGEMENT 620 E. GREENE STREET CARLSBAD, NM 88220-6292</p>		<p>B. Received by (Printed Name)</p>	<p>C. Date of Delivery</p>
<p>2. Article Number (Transfer from service label) 7005 0390 0002 9910 6524</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail </div> <div style="width: 45%;"> <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> C.O.D. </div> </div>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 		<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>A. Signature: X</p> </div> <div style="width: 35%;"> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee </div> </div>	
<p>1. Article Addressed to:</p> <p>STATE OF NEW MEXICO ENERGY & MINERALS DEPARTMENT OIL CONSERVATION DIVISION 1301 W. GRAND AVE. ARTESIA, NM 88210</p>		<p>B. Received by (Printed Name)</p>	<p>C. Date of Delivery</p>
<p>2. Article Number (Transfer from service label) 7005 0390 0002 9910 6500</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail </div> <div style="width: 45%;"> <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> C.O.D. </div> </div>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

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<p>1. Article Addressed to:</p> <p>STATE OF NEW MEXICO ENERGY & MINERALS DEPARTMENT OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. SANTA FE, NM 87505</p>		<p>B. Received by (Printed Name)</p>	<p>C. Date of Delivery</p>
<p>2. Article Number (Transfer from service label) 7005 0390 0002 9910 6517</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Registered <input type="checkbox"/> Insured Mail </div> <div style="width: 45%;"> <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> C.O.D. </div> </div>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee X</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p style="font-size: 1.2em;">Devon Energy Prod. Co. LP ATTN: Ken Gruy 20 N. Broadway Oklahoma City, OK 73102</p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label) 7005 0390 0002 9910 6531</p>	
<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee X</p> <p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p style="font-size: 1.2em;">Southwest Royalties Inc. Attn: Randy Howard 6 Deste Drive, Suite 2100 Midland, TX 79705</p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label) 7005 0390 0002 9910 6548</p>	
<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>	

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA Inc.
LEASE NO.:	NM0545035
WELL NAME & NO.:	Federal 29 # 5
SURFACE HOLE FOOTAGE:	330' FNL & 2460' FWL
BOTTOM HOLE FOOTAGE:	332' FNL & 376' FWL
LOCATION:	Section 29, T. 23 S., R 31 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.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
 - Lesser Prairie Chicken
 - Sand Dune Lizard
- ☒ **Construction**
 - Notification
 - Topsoil
 - Closed Loop System
 - Federal Mineral Material Pits
 - Well Pads
 - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
 - R-111-P Potash
 - Logging requirements
- ☒ **Production (Post Drilling)**
 - Well Structures & Facilities
 - Pipelines
 - Electric Lines
- ☒ **Reseeding Procedure/Interim Reclamation**
- ☐ **Final Abandonment/Reclamation**

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period.

Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted.

Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Although this is a closed loop system and no reserve pits will be utilized, the v-door will be on the south side of the location.

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

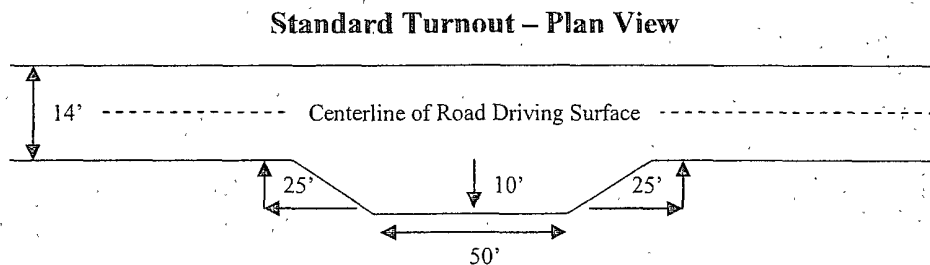
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

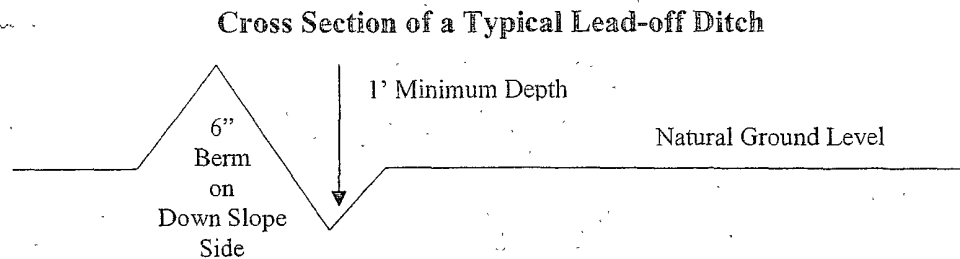
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:



Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outslowing and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

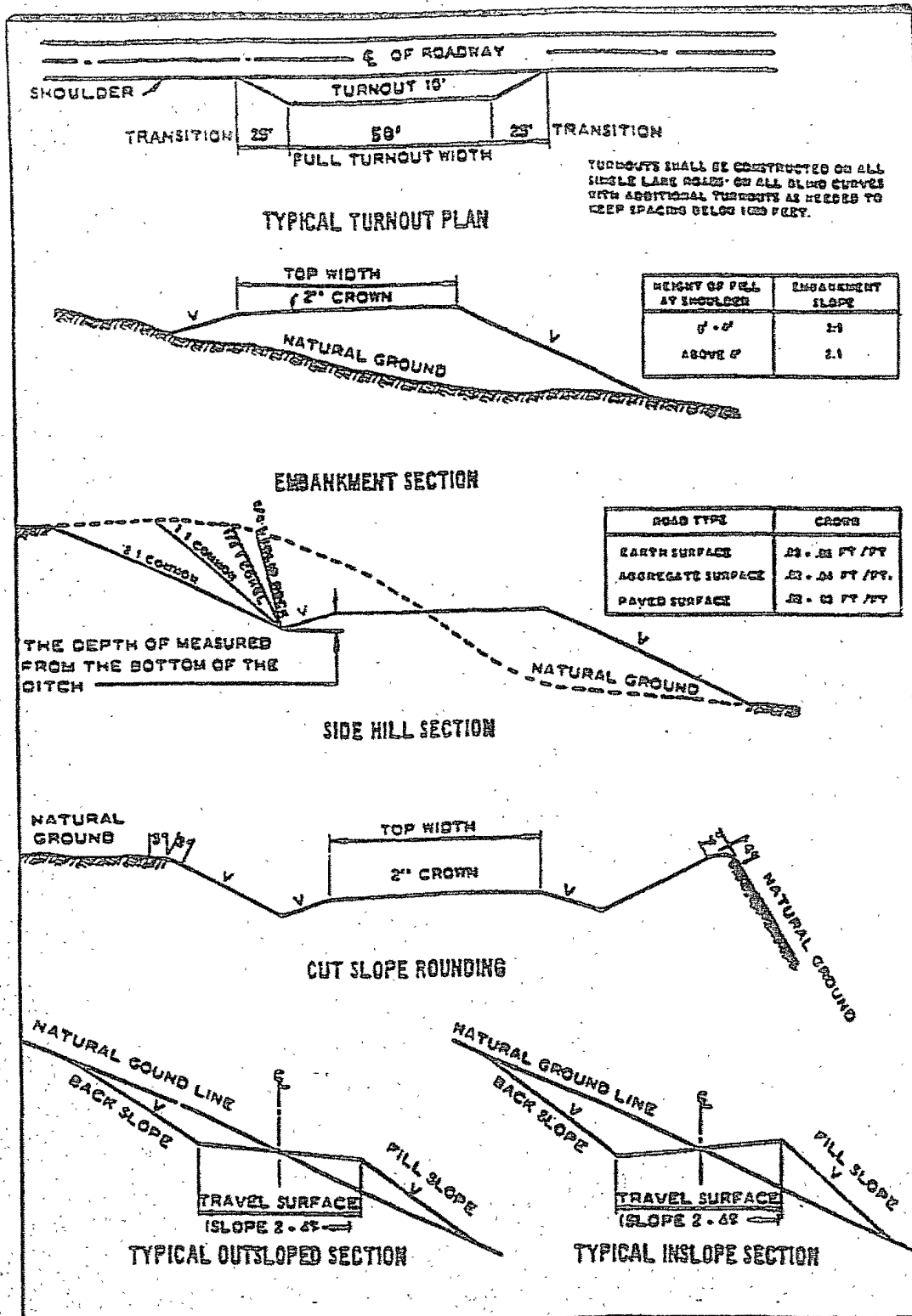
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. The Rustler top and top and bottom of Salt is to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P Potash

Possible lost circulation in the Delaware and Bone Spring formations.

Possible water flows in the Salado, Castile, Delaware and Bone Spring formations.

1. The 11-3/4 inch surface casing shall be set at approximately 400 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If the salt is encountered at a shallower depth, the casing is to be set a minimum of 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is: The intermediate should be set at approximately 4000 feet in the Fletcher Anhydrite or Lamar Limestone.
 - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash concerns.

The DV tool should be placed a minimum of 50 feet below the intermediate casing shoe.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall:
 - ☒ Cement to circulate. If cement does not circulate, contact the appropriate BLM office, before proceeding with second stage cement job.
 - b. Second stage above DV tool, cement shall:
 - ☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.
4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
5. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. **Variance approved to use flex line from BOP to choke manifold. Check condition of 3" flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends.**
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi. Operator is using a 5M system but testing as a 3M.**
4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**

- d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
- e. **Effective November 1, 2008, no variances will be granted on reduced pressure tests on the surface casing and BOP/BOPE. Onshore Order 2 requirements will be in effect.**

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

RGH 081909

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color
Shale Green, Munsell Soil Color Chart # 5Y 4/2

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder

of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 25 feet.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Powerlines shall be constructed in accordance to standards outlined in "Suggested Practices for Raptor Protection on Powerlines," Raptor Research Foundation, Inc., 1981. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication are "raptor safe." Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.
- See attached reclamation plans.

IX. INTERIM RECLAMATION & RESEEDING PROCEDURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

B. RESEEDING PROCEDURE

Once the well is drilled, all completion procedures accomplished, and all trash removed, reseed the location and all surrounding disturbed areas as follows:

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

**Four-winged Saltbush 5lbs/A

* This can be used around well pads and other areas where caliche cannot be removed.

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.