

30-015-04749

**REVISED  
MULTI-POINT SURFACE USE PLAN**

**NAME OF WELL: Harrison Federal #1**

This project will be a re-entry of a plugged and abandoned well and conversion to produced water disposal (Approximately 20,000 bbls/day). This well is part of Poker Lake Unit.

**LEGAL DESCRIPTION - SURFACE:** 660' FNL, 660' FSL, Section 12, T25S, R30E, Eddy County, NM.

**POINT 1: EXISTING ROADS**

A) Proposed Well Site Location:

See Exhibit "A".

B) Existing Roads:

From the end of Twin Wells Road and Buck Jackson, go south on Buck Jackson for 1.0 miles to lease road, on lease road go east 0.1 miles to proposed location.

C) Existing Road Maintenance or Improvement Plan:

See Exhibit "B"

**POINT 2: NEW PLANNED ACCESS ROUTE**

A) Route Location:

Approximately 500' long from the existing lease road. (Upgrade)

B) Width

12' wide

C) Maximum Grade

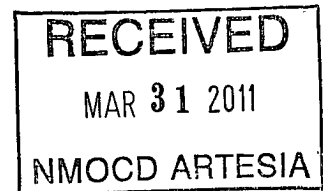
Grade to match existing topography or as per BLM requirements.

D) Turnout Ditches

As required by BLM stipulations

E) Culverts, Cattle Guards, and Surfacing Equipment

If required, culverts and cattle guards will be set per BLM Specs.



**POINT 3: LOCATION OF EXISTING WELLS**

Exhibits "A" indicates existing wells within the surrounding area.

#### **POINT 4: LOCATION OF EXISTING OR PROPOSED FACILITIES**

Page 2

- A) No existing disposal facilities within one mile owned or controlled by lessee/operator.
- B) New Facilities in the Event of Production:

Disposal facilities will be built at Harrison Federal #1 well pad. Water will be brought to the facility via 10" buried poly line from PLU #78 water station (Sec 25 T24S R30E). See attached Exhibit "E". Disposal facilities at the Harrison Federal #1 will consist of a electrical horizontal centrifugal injection pump ("H" pump) and four one thousand barrel (1000 bbl) fiberglass water tanks. See Exhibit "G" for location of facilities. The majority of disposal water will come from James Ranch and Poker Lake Units. Water from other BOPCO, L.P. leases may be disposed of here also. Furthermore, trucking of water to this facility is likely if there is any failure in the water gathering system.

- C) Rehabilitation of Disturbed Areas Unnecessary for Production:

Following the construction, those access areas required for continued production will be graded to provide drainage and minimize erosion. The areas unnecessary for use will be graded to blend in with the surrounding topography (see Point 10)

#### **POINT 5: LOCATION AND TYPE OF WATER SUPPLY**

- A) Location and Type of Water Supply

Fresh water will be hauled from Johnson Station 50 miles east of Carlsbad, New Mexico or other commercial facilities. Brine water will be hauled from commercial facilities.

- B) Water Transportation System

Water hauling to the location will be over the existing and proposed roads.

#### **POINT 6: SOURCE OF CONSTRUCTION MATERIALS**

- A) Materials

On-site caliche will be used. If this is not sufficient, caliche will be hauled from a BLM approved pit.

- B) Land Ownership

Federally Owned

- C) Materials Foreign to the Site

Fill may be necessary for this location. This will be coordinated with the BLM.

- D) Access Roads

See Exhibits "C" & "B".

## **POINT 7: METHODS FOR HANDLING WASTE MATERIAL**

Page 3

### **A) Cuttings**

Cuttings will be contained in the roll off bins and disposed of a CRI.

### **B) Drilling Fluids**

Drilling fluids will be contained in the steel pits, frac tanks and disposed at licensed disposal sites.

### **C) Produced Fluids**

Water production will be contained in the steel pits.

Hydrocarbon fluid or other fluids that may be produced during testing will be retained in test tanks. Prior to cleanup operations, any hydrocarbon material in the reserve pit will be removed by skimming or burning as the situation would dictate.

### **D) Sewage**

Current laws and regulations pertaining to the disposal of human waste will be complied with.

### **E) Garbage**

Portable containers will be utilized for garbage disposal during the drilling of this well.

### **F) Cleanup of Well Site**

Upon release of the drilling rig, the surface of the drilling pad will be graded to accommodate a completion rig if electric log analysis indicate potential productive zones. Reasonable cleanup will be performed prior to the final restoration of the site.

## **POINT 8: ANCILLARY FACILITIES**

None required.

## **POINT 9: WELL SITE LAYOUT**

### **A) Rig Orientation and Layout**

Exhibit "D" shows the dimensions of the well pad, closed loop system, and the location of major rig components. Only minor leveling of the well site will be required. The North-South dimensions of this pad will be modified to keep the location outside of the old caliche pit. See Exhibit "F".

### **B) Locations of Access Road**

See Exhibits "C" and "B".

### **C) Lining of the Pits**

No reserve pits - closed loop system.

## POINT 10: PLANS FOR RESTORATION OF THE SURFACE

Page 4

### A) Reserve Pit Cleanup - Not applicable

The pits will be fenced immediately after construction and shall be maintained until they are backfilled. Previous to backfill operations, any hydrocarbon material on the pits' surfaces shall be removed. The fluids and solids contained in the pits shall be backfilled with soil excavated from the site and soil adjacent to the reserve pits. The restored surface of the pits shall be contoured to prevent impoundment of surface water flow. Water-bars will be constructed as needed to prevent excessive erosion. Topsoil, as available, shall be placed over the restored surface in a uniform layer. The area will be seeded according to the Bureau of Land Management stipulations during the appropriate season following restoration.

### B) Restoration Plans - Production Developed

Those areas not required for production will be graded to blend with the surrounding topography. Topsoil, as available, will be placed upon those areas and seeded. The portion of the site required for production will be graded to minimize erosion and provide access during inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

### C) Restoration Plans - No Production Developed

With no production developed, the entire surface disturbed by construction of the well site will be restored. The site will be contoured to blend with the surrounding topography and provide drainage of surface water. The topsoil, as available, shall be replaced in a uniform layer and seeded according to the Bureau of Land Management's stipulations.

### D) Rehabilitation's Timetable

Upon completion of drilling operations, the initial cleanup of the site will be performed as soon as weather and site conditions allow economic execution of the work.

## POINT 11: OTHER INFORMATION

### A) Terrain

Slightly rolling hills.

### B) Soil

Caliche and sand.

### C) Vegetation

Sparse, primarily grasses and mesquite with very little grass.

### D) Surface Use

Primarily grazing.

E) Surface Water

There are no ponds, lakes, streams or rivers within several miles of the wellsite.

F) Water Wells

There is one existing water well located approximately 300' from the proposed location. (See exhibit "B").

G) Residences and Buildings

None in the immediate vicinity.

H) Historical Sites

None observed.

I) Archeological Resources

Since this operation involves an P&A well with existing pad, no arch survey has been ordered.

J) Surface Ownership

The well site is on federally owned land. There will be no new access roads required for this location. Upgrading of existing road will be necessary.

K) Well signs will be posted at the drilling site.

L) Open Pits

All pits containing liquid or mud will be fenced and bird-netted.

**POINT 12: OPERATOR'S FIELD REPRESENTATIVE**

(Field personnel responsible for compliance with development plan for surface use).

DRILLING  
Stephen Martinez  
Box 2760  
Midland, Texas 79702  
(432) 683-2277

PRODUCTION  
Dean Cleammer  
3104 East Green Street  
Carlsbad, New Mexico 88220  
(575) 887-7329

Carlos Cruz  
Box 2760  
Midland, Texas 79702  
(432) 683-2277



# **BOPCO, L.P.**

P. O. Box 2760  
Midland, Texas 79702

432-683-2277

FAX-432-687-0329

November 12, 2010

Bureau of Land Management  
Carlsbad Field Office  
620 East Green Street  
Carlsbad, New Mexico 88220-6292

Attn: Mr. Don Peterson – Assistant Field Manager, Minerals

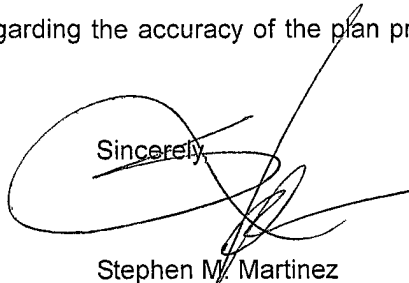
RE: APPLICATION FOR PERMIT TO DRILL – 3162.4  
HARRISON FEDERAL #1 – LEASE SN: NM030456  
660' FNL, 660' FEL, SEC. 12, T25S, R30E, EDDY COUNTY, NM

Dear Mr. Peterson,

In reference to the above captioned well, I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the attached eight point drilling plan and multi-use surface plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by BOPCO, L.P. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

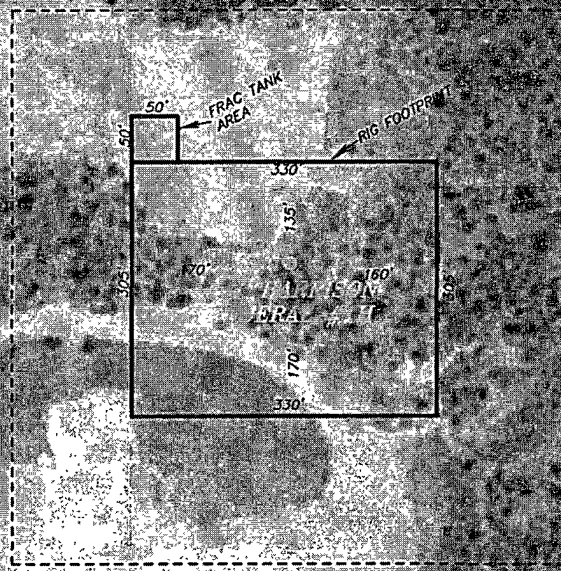
If you have any questions regarding the accuracy of the plan provided herein, please do not hesitate to contact me at (432) 683-2277.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stephen M. Martinez', is written over the word 'Sincerely,'.

Stephen M. Martinez  
Division Drilling Superintendent

BLICK JACKSON



J.F. HARRISON FEDERAL #1H  
Located 660' FNL and 660' FWL  
Section 12, Township 25 South, Range 30 East,  
N.M.P.M., Eddy County, New Mexico.

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1120 N. West County Rd.  
Hobbs, New Mexico 88241  
(575) 393-7316 - Office  
(575) 392-2206 - Fax  
basinsurveys.com

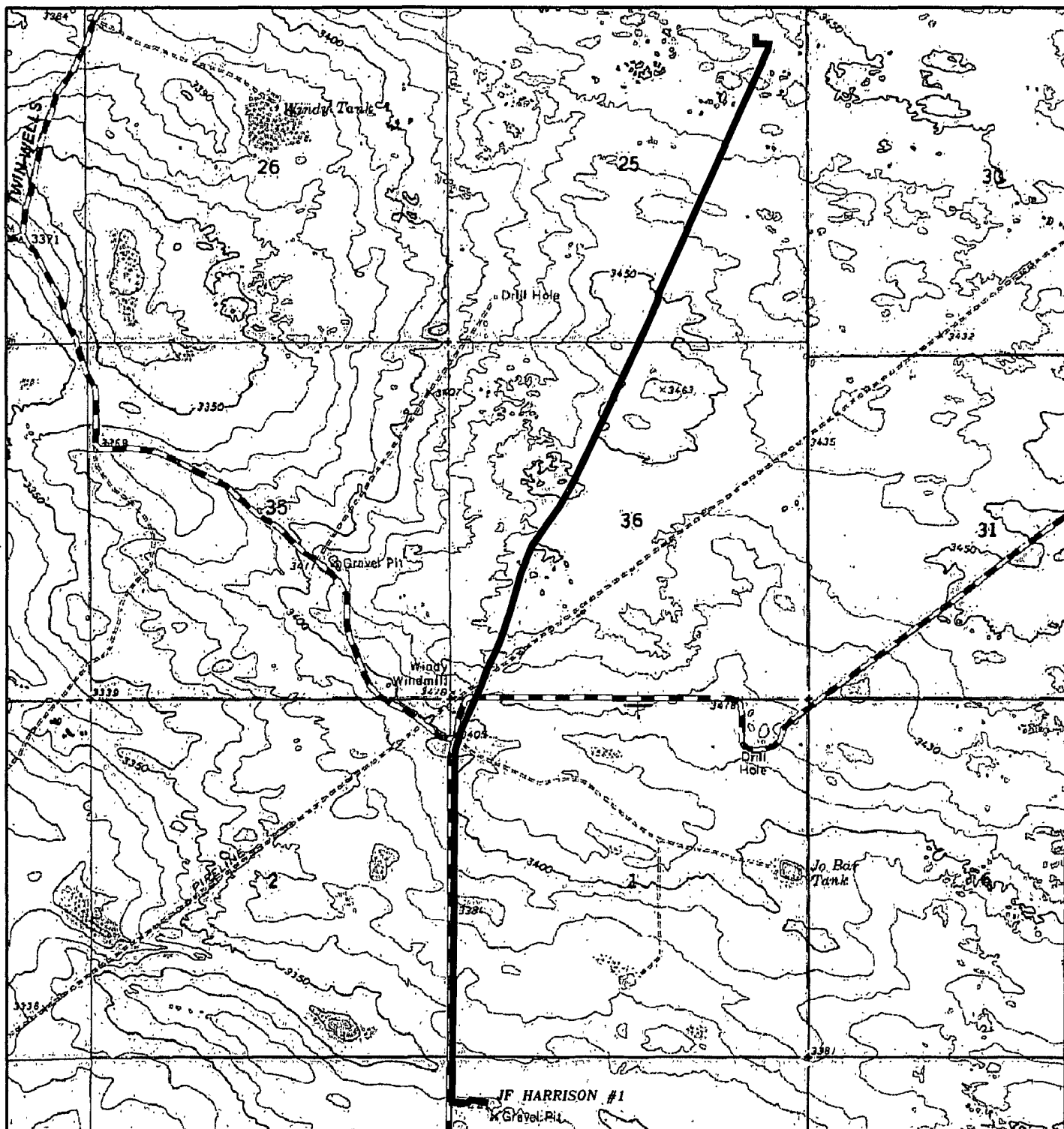
W.O. Number: JMS 23332

Scale: 1" = 200'

YELLOW TINT - USA LAND  
BLUE TINT - STATE LAND  
NATURAL COLOR - FEE LAND



BOPCO, L.P.



PROPOSED PIPELINE TO THE POKER LAKE UNIT #79  
 Section 12, Township 25 South, Range 30 East,  
 N.M.P.M., Eddy County, New Mexico.

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 basinsurveys.com

W.O. Number: KJG - 23403

Survey Date 09-10-2010

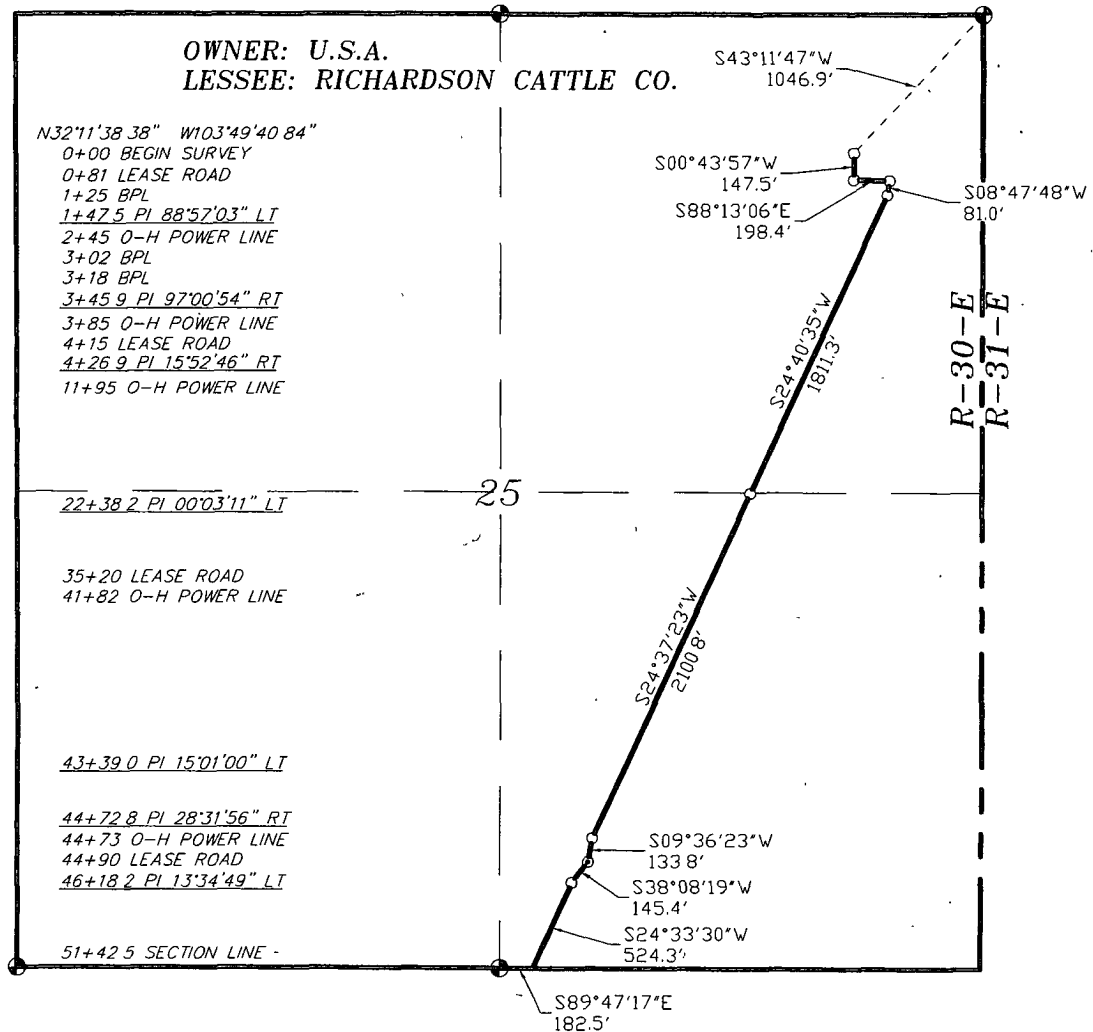
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Date: 09-28-2010

**BOPCO, L.P.**



SECTION 25, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 25, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

5142.5 FEET = 0.97 MILES = 311.67 RODS = 3.54 ACRES

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS THE REQUIREMENTS FOR LAND SURVEYS AS PRESCRIBED BY THIS STATE



GARY L. JOHNSON, N.M. No 7977  
P.L.S. No 5074

**BASIN SURVEYS** P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number. 23403 Drawn By K. GOAD

Date: 09-28-2010 Disk. KJG - 23403P DWG

1000 0 1000 2000 FEET



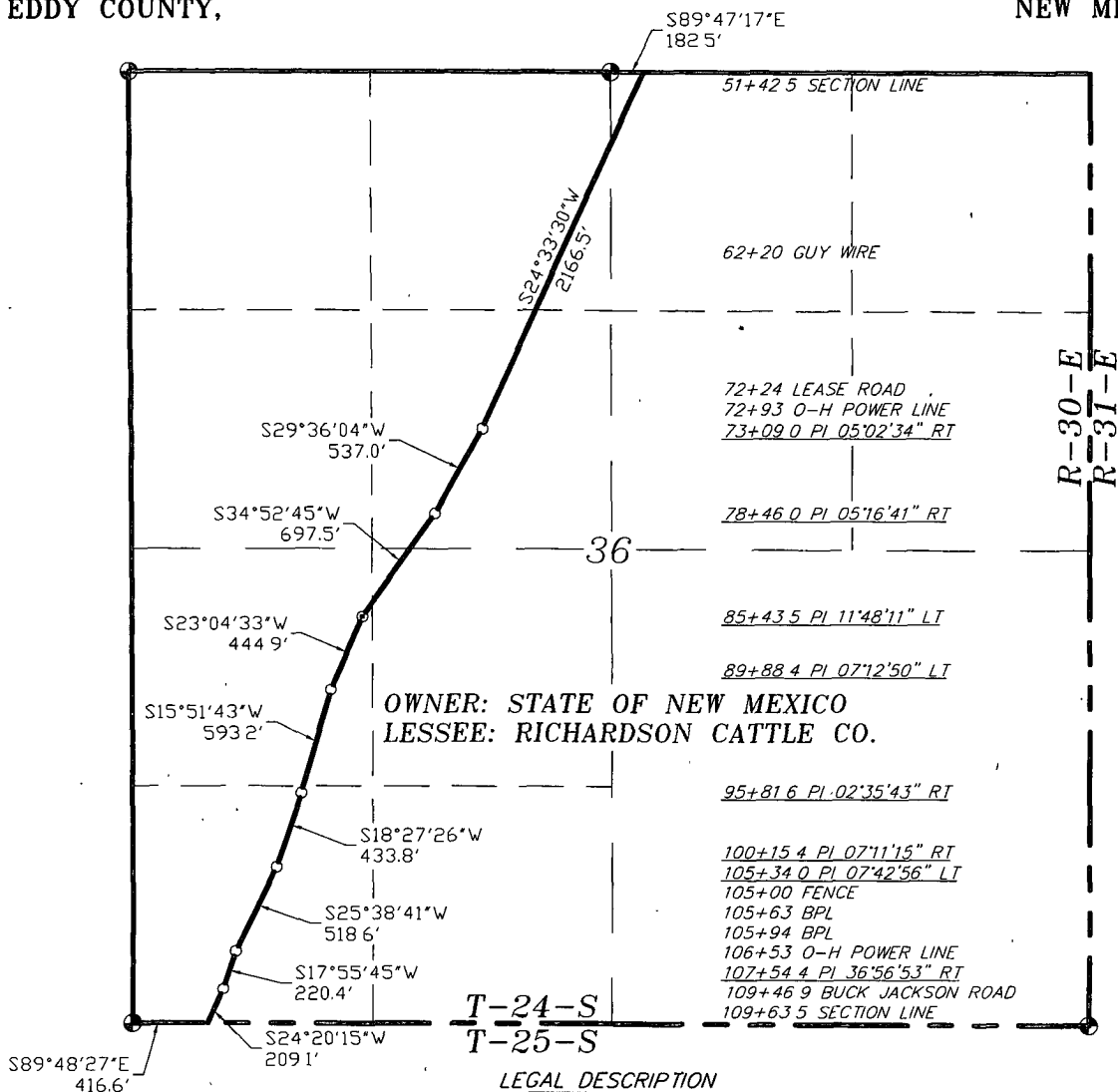
**BOPCO, L.P.**

REF. PROP PIPELINE TO THE JF HARRISON #1

A PIPELINE CROSSING USA LAND IN  
SECTION 25, TOWNSHIP 24 SOUTH, RANGE 30 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date 09-10-2010 Sheet 1 of 3 Sheets

SECTION 36, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



A STRIP OF LAND 300 FEET WIDE, LOCATED IN SECTION 36, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 150 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY

BEGINNING AT A POINT ON THE NORTH SECTION LINE WHICH LIES S 89°47'17"E, 182.5 FEET, THENCE S 24°33'30"W, 2166.5 FEET, THENCE S 29°36'04"W, 537.0 FEET; THENCE S 34°52'45"W, 697.5 FEET, THENCE S 23°04'33"W, 444.9 FEET, THENCE S 15°51'43"W, 593.2 FEET, THENCE S 18°27'26"W, 433.8 FEET, THENCE S 25°38'41"W, 518.6 FEET, THENCE S 17°55'45"W, 220.4 FEET, THENCE S 24°20'15"W, 209.1 FEET TO A POINT ON THE SOUTH SECTION LINE WHICH LIES S 89°48'27"E, 416.6 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 36 SAID STRIP OF LAND BEING 5821.0 FEET OR 352.79 RODS IN LENGTH AND CONTAINING 4.01 ACRES, MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS

NW/4NE/4 26.51 RODS OR 0.30 ACRES  
NE/4NW/4 61.23 RODS OR 0.70 ACRES  
SE/4NW/4 90.59 RODS OR 1.03 ACRES

NE/4SW/4 22.06 RODS OR 0.25 ACRES  
NW/4SW/4 66.18 RODS OR 0.75 ACRES  
SW/4SW/4 86.22 RODS OR 0.98 ACRES

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS THE REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE

GARY L. JONES, P.L.S. No 7977  
No 5074

**BASIN SURVEYS** P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number. 23403 Drawn By: K. GOAD

Date: 09-28-2010 Disk: KJG - 23403P.DWG

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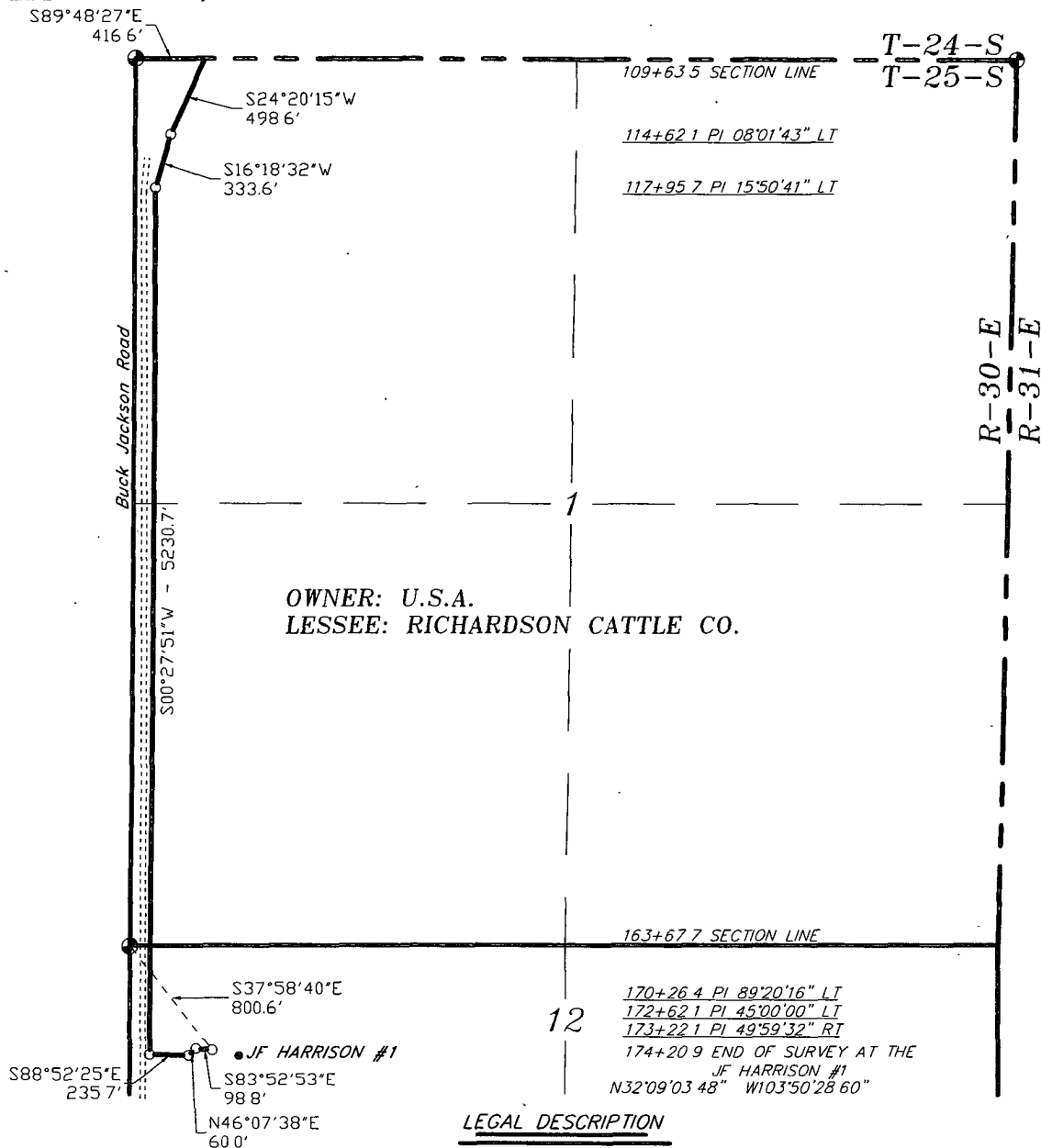
**BOPCO, L.P.**

REF PROP PIPELINE TO THE JF HARRISON #1

A PIPELINE CROSSING STATE LAND IN  
SECTION 36, TOWNSHIP 24 SOUTH, RANGE 30 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date 09-10-2010 Sheet 2 of 3 Sheets

SECTION 1, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



A STRIP OF LAND 300 FEET WIDE, LOCATED IN SECTIONS 1&12, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 150 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

SEC 1 5404.2 FEET = 1.02 MILES = 327.53 RODS = 3.72 ACRES  
SEC 12 1053.2 FEET = 0.20 MILES = 63.83 RODS = 0.73 ACRES  
TOTAL 6457.4 FEET = 1.22 MILES = 391.36 RODS = 4.45 ACRES

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES, OR FROM ACTUAL SURVEY AND MEETS OR EXCEEDS REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. [Signature] PLS No. 7977 No. 5074

**BASIN SURVEYS** P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 23403 Drawn By: K. GOAD

Date: 09-28-2010 Disk: KJG - 23403P.DWG

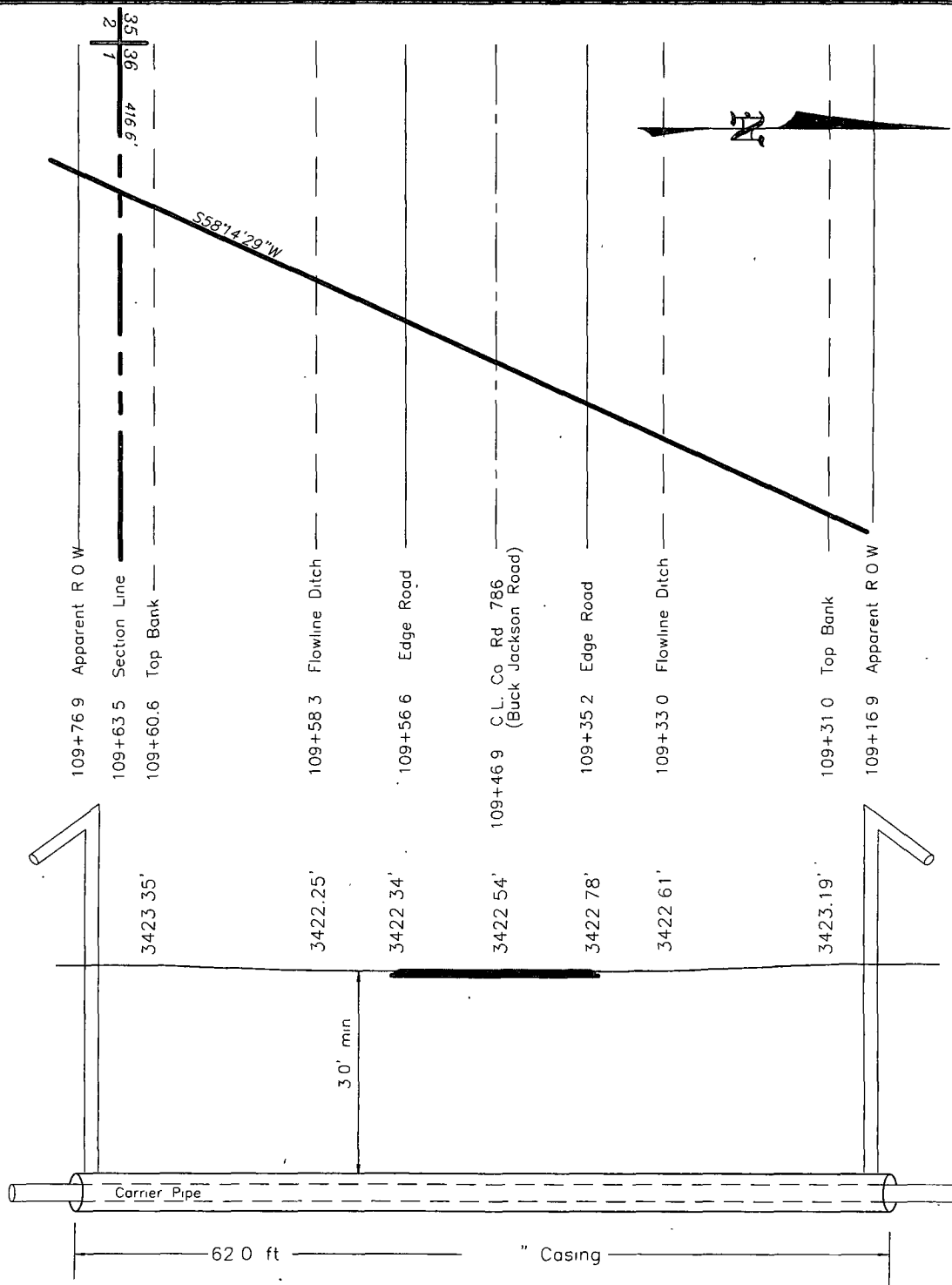
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**BOPCO, L.P.**

REF. PROP PIPELINE TO THE JF HARRISON #1

A PIPELINE CROSSING USA LAND IN  
SECTION 1, TOWNSHIP 25 SOUTH, RANGE 30 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date 09-10-2010 Sheet 3 of 3 Sheets



	Carrier Pipe	Casing Pipe	CROSSING OF COUNTY ROAD 786 (BUCK JACKSON ROAD)
Contents			<b>BOPCO, L.P.</b>
O.D.			REF PROP PIPELINE TO THE JF HARRISON #1
I.D.			
Material			
W.T.			
Grade			

A ROAD CROSSING LOCATED IN  
SECTION 36, TOWNSHIP 24 SOUTH, RANGE 30 EAST  
N.M.P.M., EDDY COUNTY, NEW MEXICO

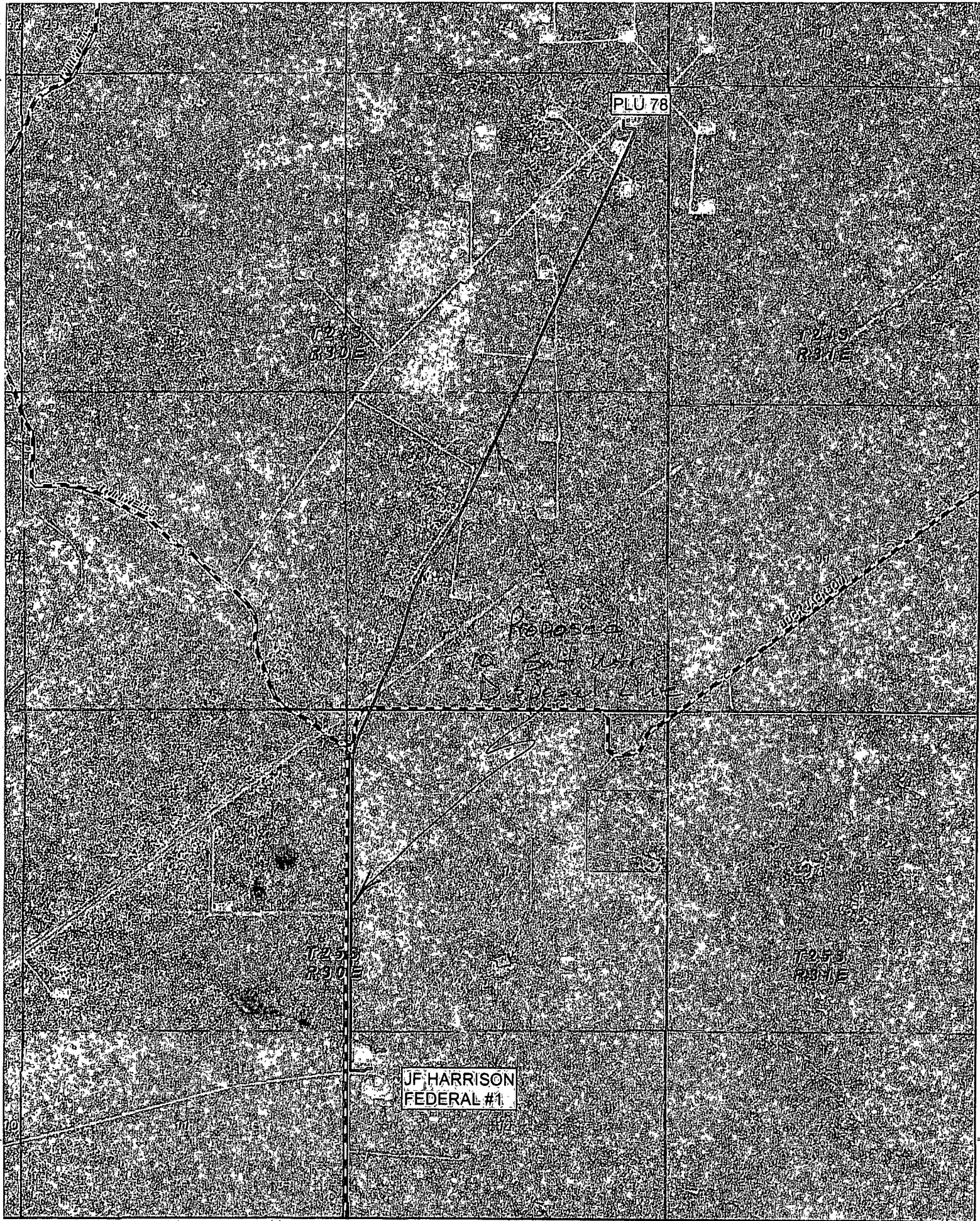
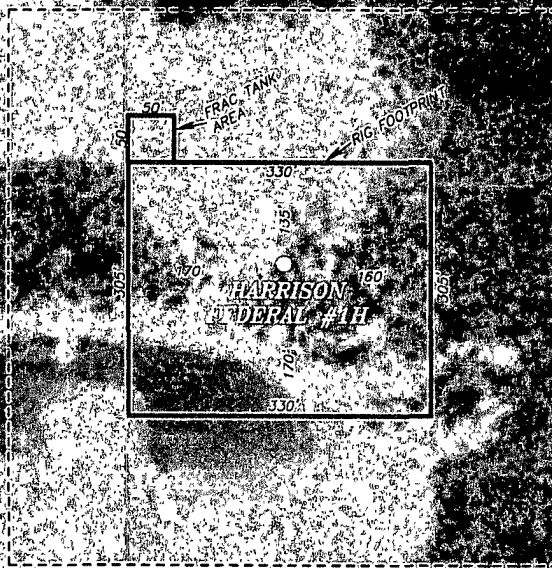


Exhibit "E"



BUCK-JACKSON



# HARRISON FEDERAL #1H

Located 660' FNL and 660' FWL

Section 12, Township 25 South, Range 30 East,  
N.M.P.M., Eddy County, New Mexico.

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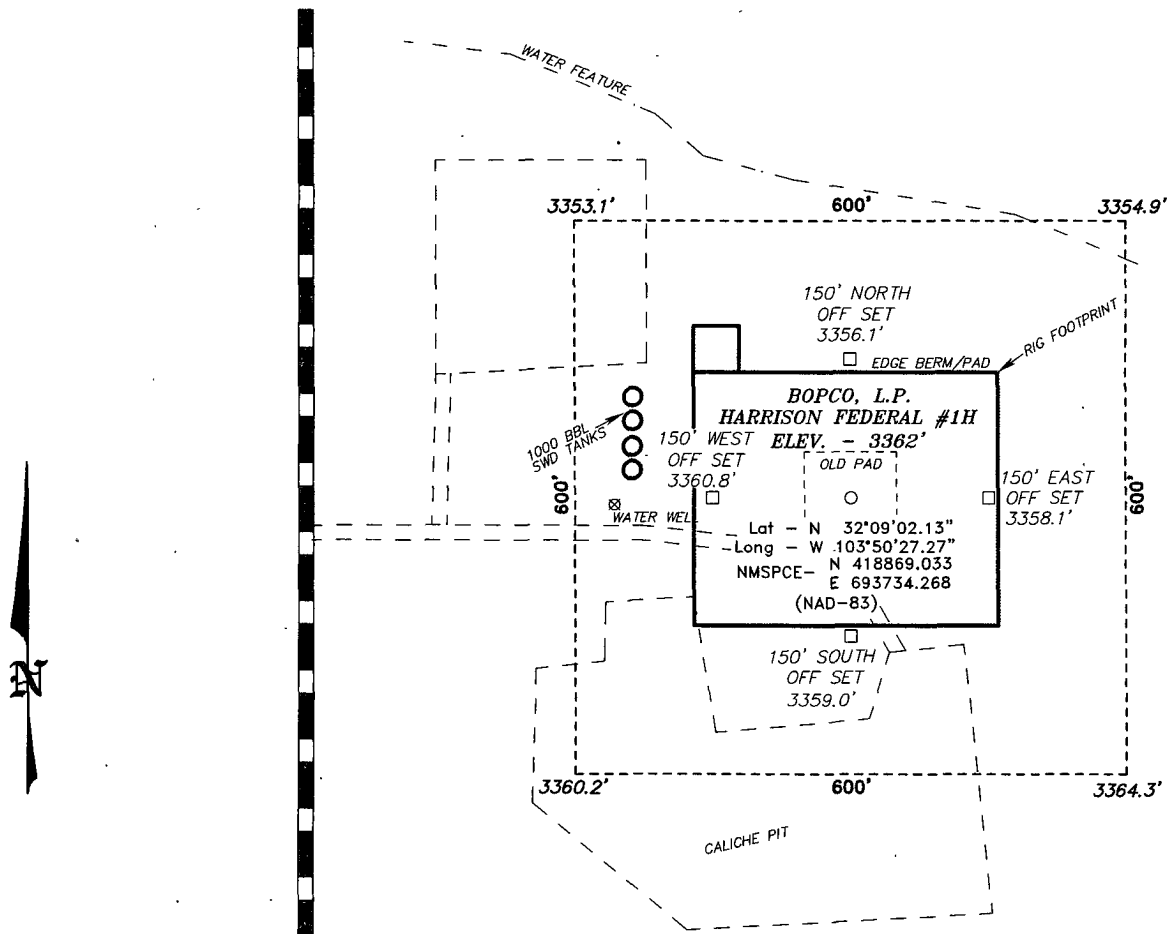
Scale: 1" = 200'

YELLOW TINT - USA LAND  
BLUE TINT - STATE LAND  
NATURAL COLOR - FEE LAND

*BOPCO, L.P.*

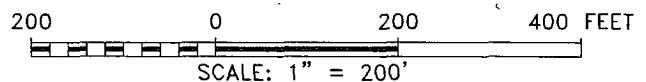
Exhibit "F"

SECTION 12, TOWNSHIP 25 SOUTH, RANGE 30 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



Directions to Location

FROM THE END OF TWIN WELLS ROAD AND BUCK JACKSON, GO SOUTH ON BUCK JACKSON FOR 1.0 MILES TO LEASE ROAD, ON LEASE ROAD GO EAST 0.1 MILES TO PROPOSED LOCATION.



**BASIN SURVEYS** P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number. 23332 Drawn By. J. SMALL

Date: 09-08-2010 Disk: JMS 23332

**BOPCO, L.P.**

REF: HARRISON FEDERAL #1H / WELL PAD TOPO

THE HARRISON FEDERAL #1H LOCATED 660'

FROM THE NORTH LINE AND 660' FROM THE WEST LINE OF

SECTION 12, TOWNSHIP 25 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 08-30-2010 Sheet 1 of 1 Sheets

Exhibit "G"



BOPCO, L.P.  
Harrison Federal #1  
Sec 21, T25S-R30E  
Eddy County, NM

Exhibit "D"

RIG LAYOUT SCHEMATIC  
INCLUSIVE OF CLOSED-LOOP DESIGN PLAN

Solids Control Equipment Legend

