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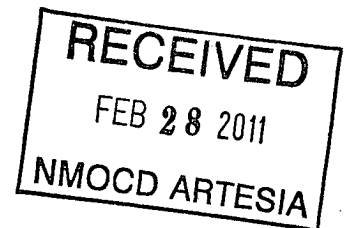
## OXY Permian

# EMERGENCY ACTION PLAN

Pure Gold B Federal #13,15,16

DRILLING/WORKOVER

DRILLING AND CRITICAL WELL OPERATIONS



Bureau of Land Management  
RECEIVED

APR 22 2010

Carlsbad Field Office  
Carlsbad, N.M.

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

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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.

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#### 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	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**                      **Richard Jackson** 713-215-7235 office  
281-467-6383 cell

**Drilling Superintendent Nelson Emery 713-215-7357 office**  
**281-467-2862 cell**

**Drilling Superintendent Sergio Abauat 432-366-5689 office  
432-893-3067 cell**

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

**HES Specialist-Drilling      Robert Lovelady 432-685-5630 office**  
**432-813-6332 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**

<b>Person</b>	<b>Location</b>	<b>Office Phone</b>	<b>Cell/Mobile Phone</b>
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**Asset Management-Operations Areas**

OXY Permian President & General Manager: Ken Dillon	Houston	(713) 366-5140	(661) 333-9315
Operations Support Manager: Vicki Hollub	Houston	(713)-215-7332	(713) 885-6347
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-Keith Sevin	Midland	(432) 685-5749	(432) 661-4121
WST Coord Frontier-Terrell Rowe	Midland	(432) 685-5821	(432) 664-8888
WST Coord South-Randy Baker	Midland	(432) 685-5913	(432) 661-3892
NM Frontier Oper Coord -Marvin McElroy	Carlsbad	(432) 652-8607	(806) 215-6750
NM-South Oper Coord-Gilbert Williams	Seminole	(432) 385-2778	(806) 215-0009
NM Frontier Oper Coord -Van Barton	Carlsbad	(575) 628-4111	(575) 706-7671
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 Juisdictional Pipelines-Incident Reporting New Mexico Public Regulation Commission	Santa Fe, NM	(505) 827-3549 (505) 490-2375	
DOT Juisdictional 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/Number:	OXY USA Inc.	16696	
Lease Name/Number:	Pure Gold B Federal #16	304928	Federal Lease No. NMNM38463
Pool Name/Number:	Sand Dunes Delaware, West	53815	
Surface Location:	1930 FNL 990 FWL SWNW (E) Sec 20 T23S R31E		

### **1. Existing Roads**

- a. A copy of a USGS "Los Medanos, New Mexico" quadrangle map is attached showing the proposed location. The well location is spotted on this map, which shows the existing road system.
- b. The well was staked by Terry J. Asel, Certificate No. 15079 on 1/19/10, certified 1/25/10.
- c. Directions to Location: From the intersection of SH 128 and and ECR 798, go northwest on SH 128 for 5.0 miles Turn left and go south on ECR 787 for 0.5 miles. Turn right and go west on proposed new road for 128' to location.

### **2. New or Reconstructed Access Roads:**

- a. A new access road will be built. The access road will run approximately 128' west from an existing road to the location. See Exhibit #2.
- b. 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.
- c. 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%.
- d. 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.**

- a. In the event the well is found productive, the Pure Gold B Federal tank battery would be utilized and the necessary production equipment will be installed at the well site and the tank battery. See proposed Production Facilities Layout diagrams, Exhibit #4.
- b. If necessary, electric power poles will be set along side of the access road.
- c. All flowlines will adhere to API Standards, see 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 located in Sec 4 T24S R31E.

## **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 - East                      Tanks - North                      Pad Size - 290' X 215'

## **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.

## 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. Cultural Resources Examination - We believe that an arch survey might have been done previously on this well, if not this well is located in the Permian Basin MOA and we will request a check for the following:.

Pad + 1/4 mile road	<u>\$1,339.00</u>	0	\$0.15/ft over 1/4 mile	<u>\$0.00</u>	<u>\$1,339.00</u>
Pipeline - up to 1mile	<u>\$1,236.00</u>		\$250 per 1/4 mile	<u>\$0.00</u>	<u>\$1,236.00</u>
Electric Line - up to 1mile	<u>\$618.00</u>		\$0.17/ft over 1 mile	<u>\$0.00</u>	<u>\$618.00</u>
Total	<u><u>\$3,193.00</u></u>			<u><u>\$0.00</u></u>	<u><u>\$3,193.00</u></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.

Marvin McElroy  
Production Coordinator  
P.O. Box 50250  
Midland, TX 79710  
Office Phone: 432-652-8607  
Cellular: 806-215-6750

Larry Sammons  
Production Lead  
P.O. Box 50250  
Midland, TX 79710  
Office Phone: 432-685-5724  
Cellular: 432-296-9323

Sergio Abauat  
Drilling Superintendent  
P.O. Box 4294  
Houston, TX 77210  
Office Phone: 432-366-5689  
Cellular: 432-893-3067

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

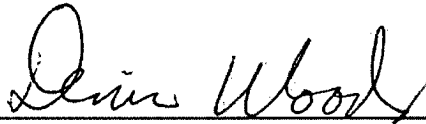
Richard Jackson  
Drilling Engineering Supervisor  
P.O. Box 4294  
Houston, TX 77210  
Office Phone: 713-215-7235  
Cellular: 281-467-6383

Luis Tarazona  
Drilling Engineer  
P.O. Box 4294  
Houston, TX 77210  
Office Phone: 713-366-5771  
Cellular: 713-628-9526

### 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 11th day of February 2010.

Name: Denise Woods



Position: RMT Leader

Address: 5 Greenway Plaza, Ste. 100, Houston, TX 77046

Telephone: 713-215-7154

E-mail: (optional): Denise\_Woods@oxy.com

Company: OXY USA Inc.

Field Representative (if not above signatory): Marvin McElroy

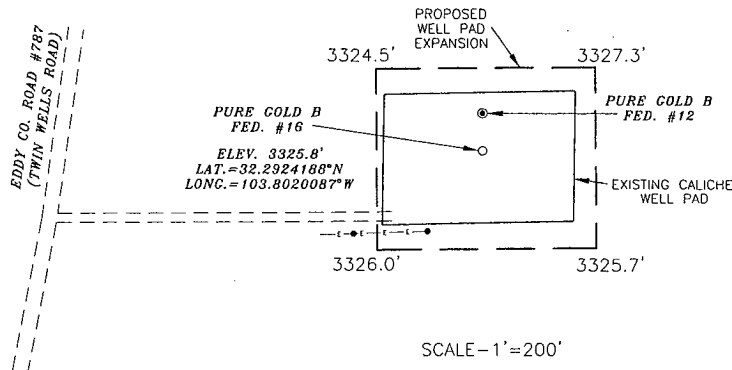
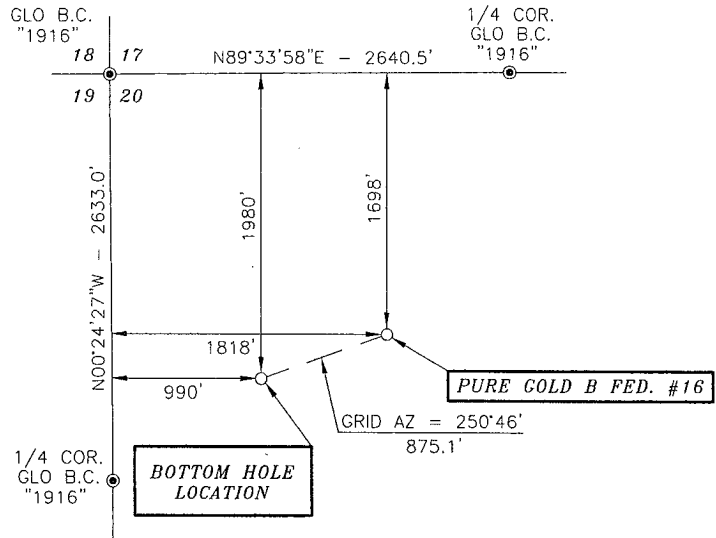
Address (if different from above): P.O. Box 1410 McCamey TX 79752

Telephone (if different from above): 806-215-6750

E-mail (if different from above): Marvin\_McElroy@oxy.com

SECTION 20, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY  
NEW MEXICO

Basis of Bearings - GPS Geodetic Measurements  
NM East Zone (83) North American Datum of 1983



DIRECTIONS:  
BEGINNING AT THE INTERSECTION  
OF HWY. #128 AND EDDY COUNTY  
ROAD #798 (RED ROAD), GO  
NORTHWEST ON HWY. #128 FOR  
5.0 MILES, TURN LEFT AND GO  
SOUTH ON COUNTY ROAD #787  
FOR 0.5 MILES, TURN LEFT AND  
GO EAST ON LEASE ROAD FOR 0.1  
MILES TO LOCATION.

SCALE - 1" = 200'



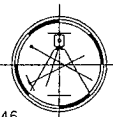
**SURVEYORS CERTIFICATE**

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL 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* 5/27/2010  
Terry J. Asel N.M. R.P.S. No. 15079

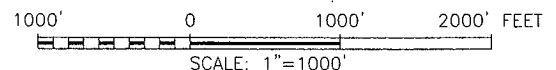
Asel Surveying

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



**LEGEND**

● - DENOTES FOUND MONUMENT AS NOTED



**OXY USA, INC.**

PURE GOLD B FED. #16 LOCATED AT  
1698' FNL & 1818' FWL IN SECTION 20,  
TOWNSHIP 23 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

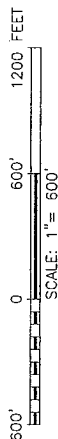
Survey Date: 05/18/10	Sheet 1 of 1 Sheets
W.O. Number: 100119WL-c (Rev. A)	Drawn By: KA Rev: A
Date: 05/25/10	100119WL-c Scale: 1"=1000

# OXY USA, INC.

TOPO SURVEY OF ELECTRIC LINES,  
ROADS, & PIPELINES THAT ARE SOUTH  
OF STATE HWY. #128 IN SECTION 20,  
TOWNSHIP 23 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

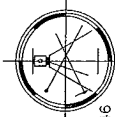
WELL NAME	ELECTRIC LINE	PIPELINE	ROAD
PURE GOLD B FED. #16	0	4527.3'	0

- LEGEND**
- DENOTES EXISTING WELL (AS NOTED)
  - DENOTES PROPOSED NEW WELL (AS NOTED)
  - DENOTES PIPELINE
  - DENOTES ELECTRIC LINE
  - DENOTES TRANSFORMER POLE



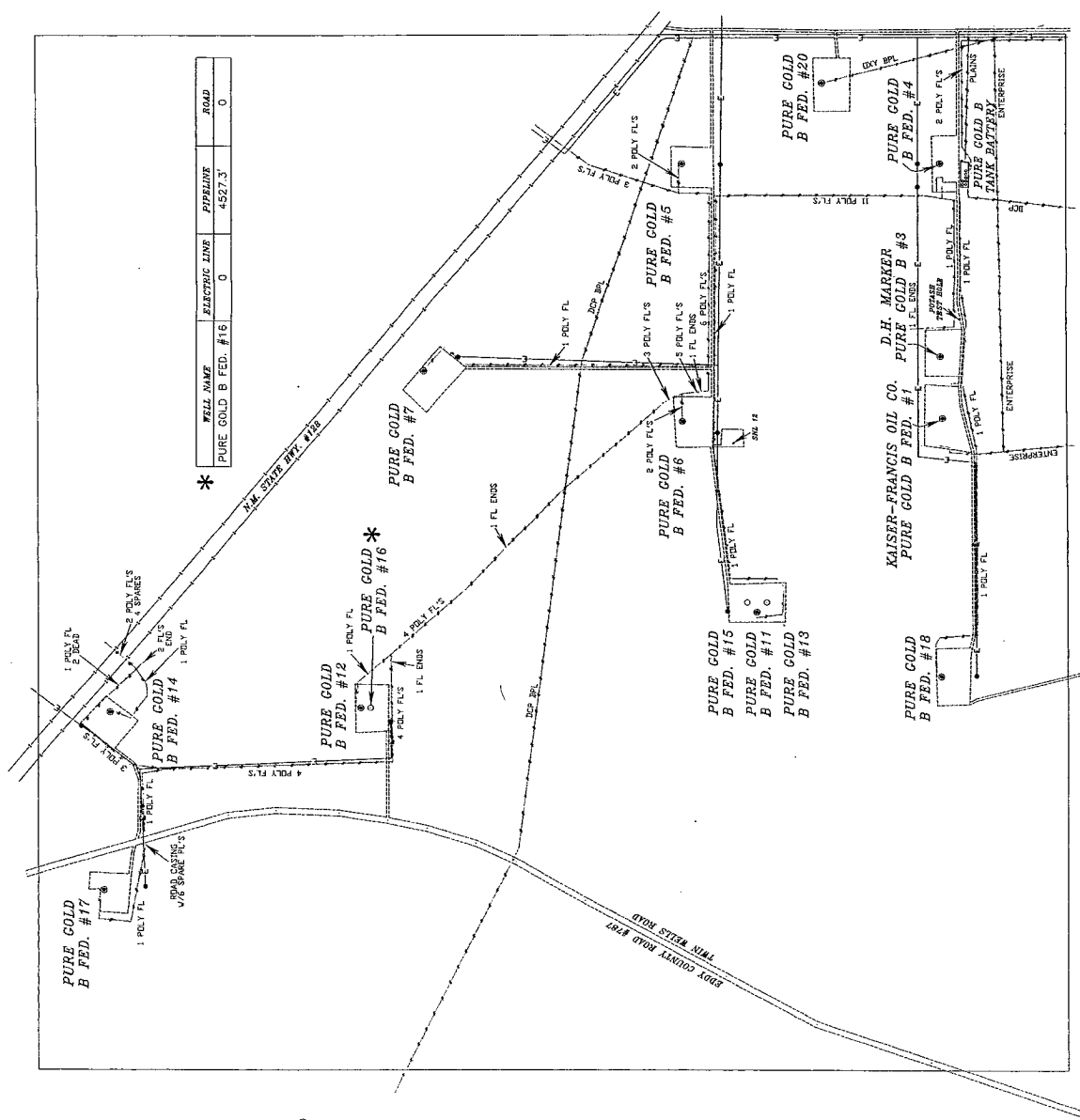
**SURVEYORS CERTIFICATE**  
I, TERRY J. ASEL NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN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

*Terry J. Asel*  
Terry J. Asel N.M. R.P.S. No. 15079 DATE 5/28/2010



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

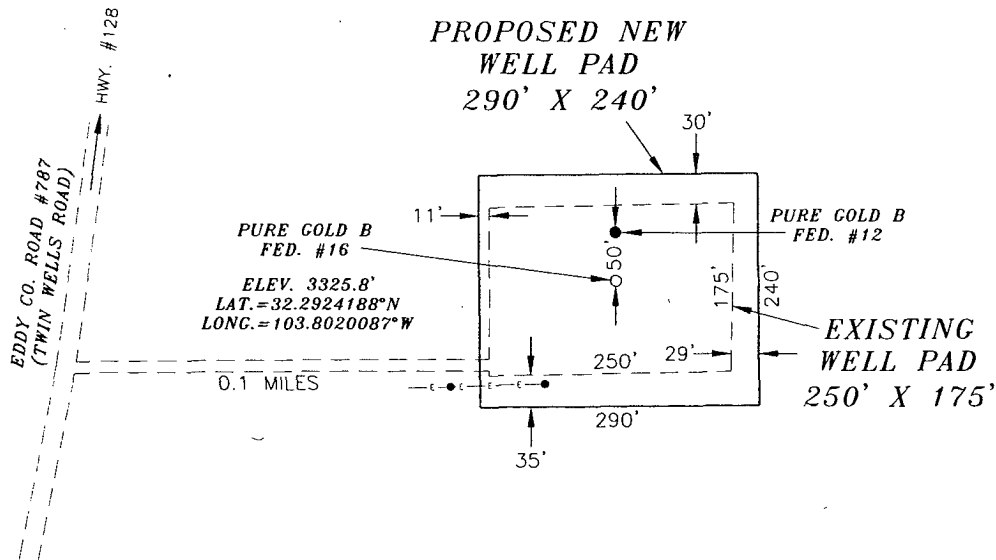
OXY USA, INC.	Work Order # 100312TS-c
Date Surveyed: 05/18/2010	Surveyed by: T. Asel
DWG # 100312TS-c.dwg	Drafted By: KA
Scale: 1" = 600'	Sheet 1 of 1



# OXY USA, INC.

## PROPOSED WELL PAD EXPANSION FOR THE PURE GOLD B FED. #16

Basis of Bearings - GPS Geodetic Measurements  
 NM East Zone (83) North American Datum of 1983



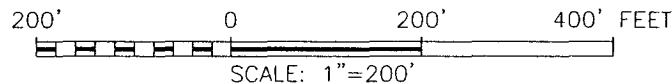
### SURVEYORS CERTIFICATE

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL 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* 7/22/2010  
 Terry J. Asel, N.M. R.P.S. No. 15079

### LEGEND

- - DENOTES EXISTING WELL
- - DENOTES PROPOSED NEW WELL
- - DENOTES PROPOSED NEW WELL PAD
- - DENOTES EXISTING WELL PAD & ROADS

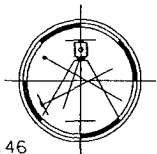


## OXY USA, INC.

PURE GOLD B FED. #16 LOCATED AT  
 1698' FNL & 1818' FWL IN SECTION 20,  
 TOWNSHIP 23 SOUTH, RANGE 31 EAST,  
 N.M.P.M., EDDY COUNTY, NEW MEXICO

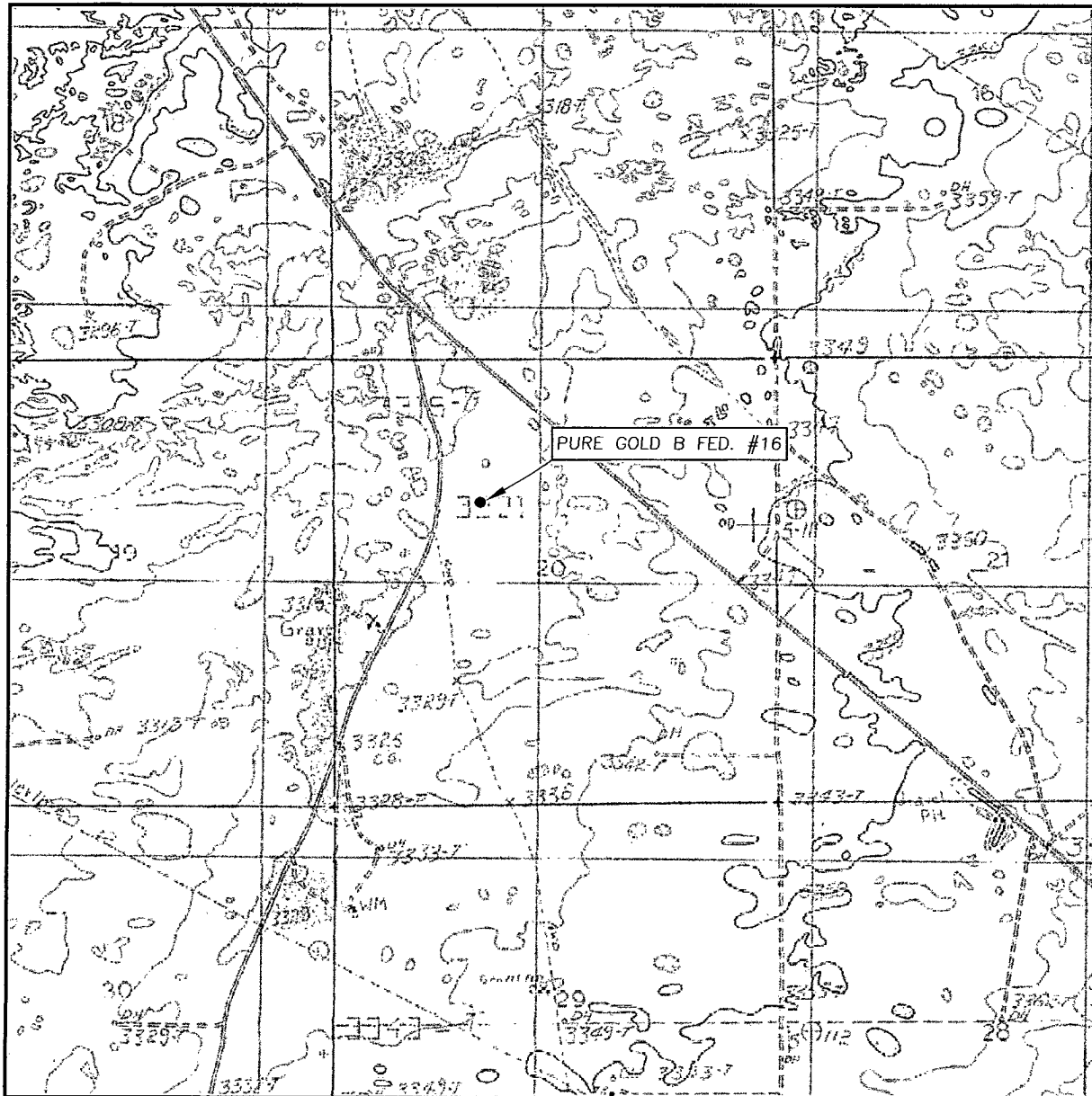
Asel Surveying

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



Survey Date: 05/18/10	Sheet 1 of 1 Sheets
W.O. Number: 100119WL-c	Drawn By: KA Rev:
Date: 07/21/10	100119WL-c Scale: 1"=200'

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 20 TWP. 23-S RGE. 31-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1698' FNL & 1818' FWL

ELEVATION 3325.8'

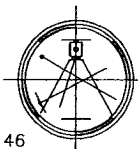
OPERATOR OXY USA, INC.

LEASE PURE GOLD B FED. #16

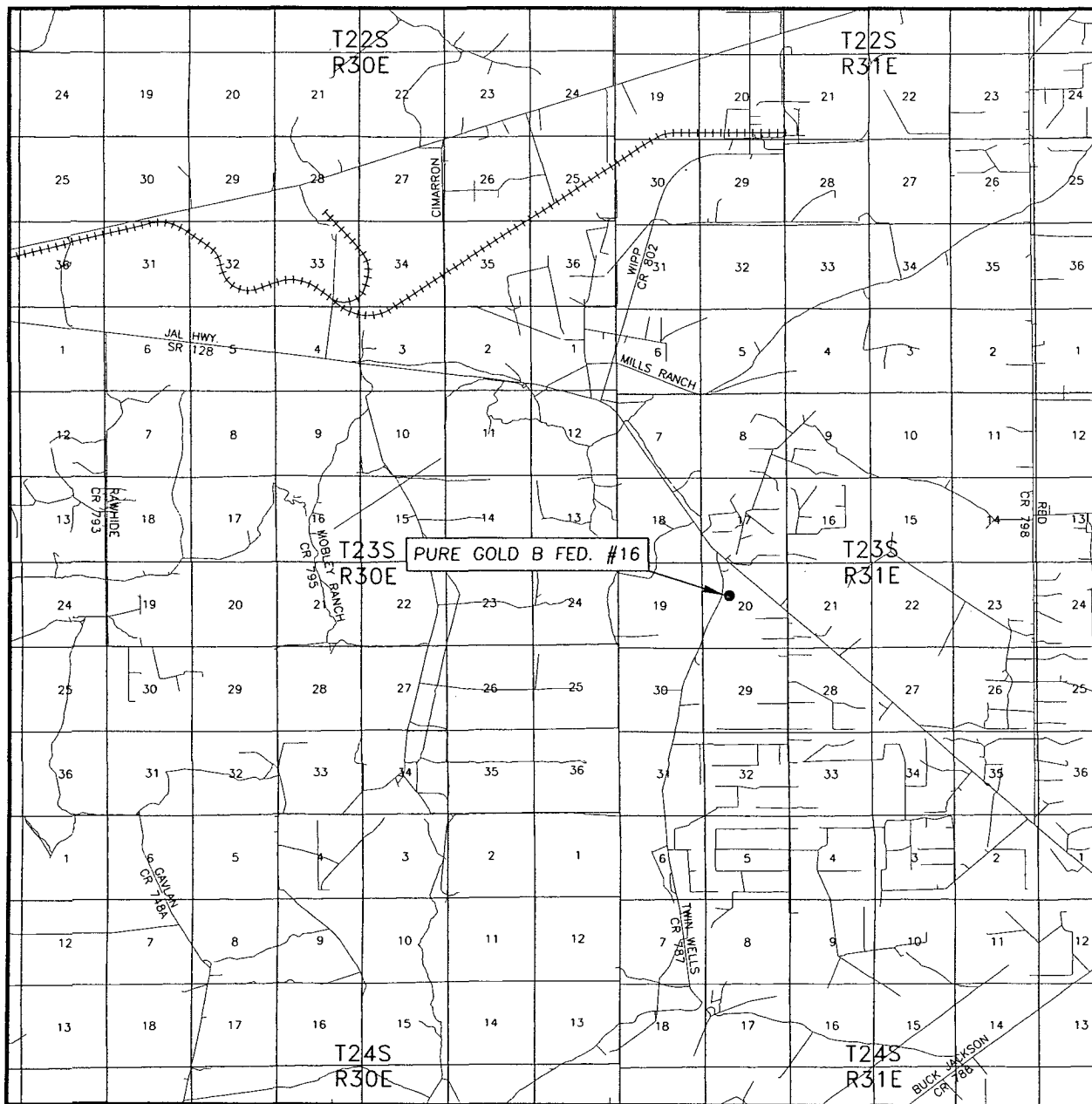
U.S.G.S. TOPOGRAPHIC MAP  
LOS MEDANOS, N.M.

Asel Surveying

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



# VICINITY MAP

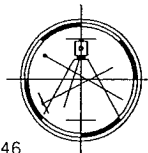


SEC. 20 TWP. 23-S RGE. 31-E  
 SURVEY N.M.P.M.  
 COUNTY EDDY  
 DESCRIPTION 1698' FNL & 1818' FWL  
 ELEVATION 3325.8'  
 OPERATOR OXY USA, INC.  
 LEASE PURE GOLD B FED. #16

SCALE: 1" = 2 MILES

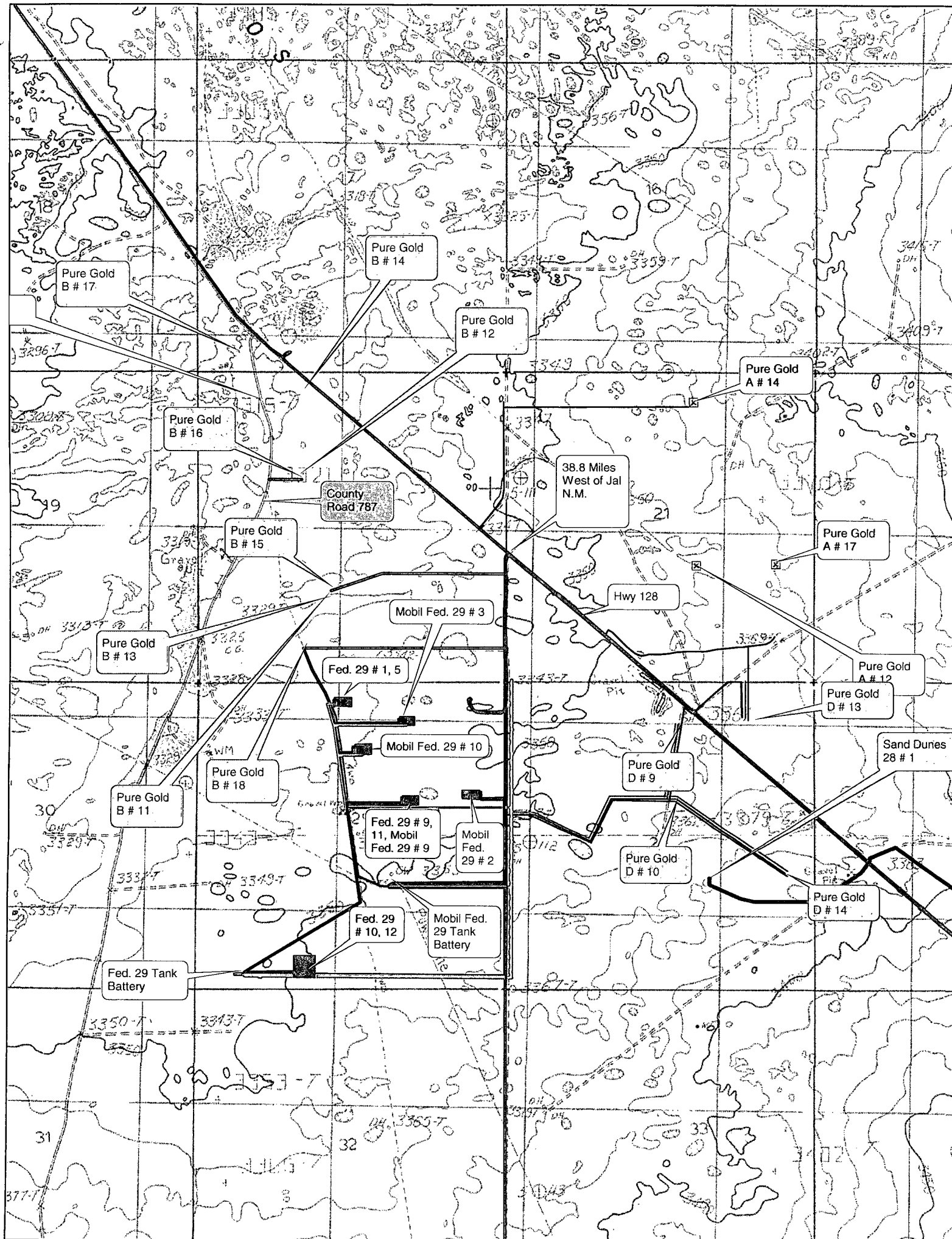
Asel Surveying

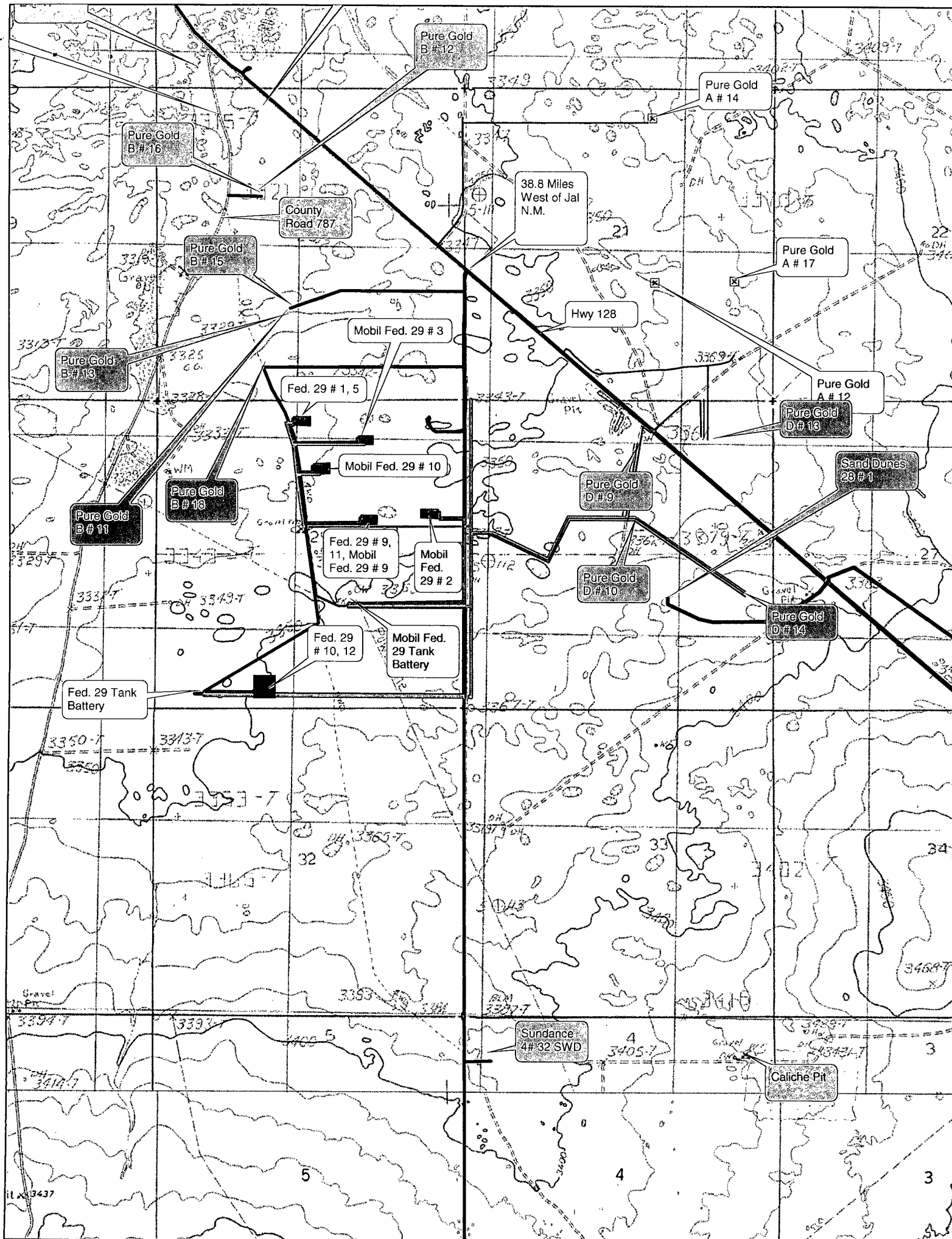
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 HOBBS, NEW MEXICO - 575-393-9146



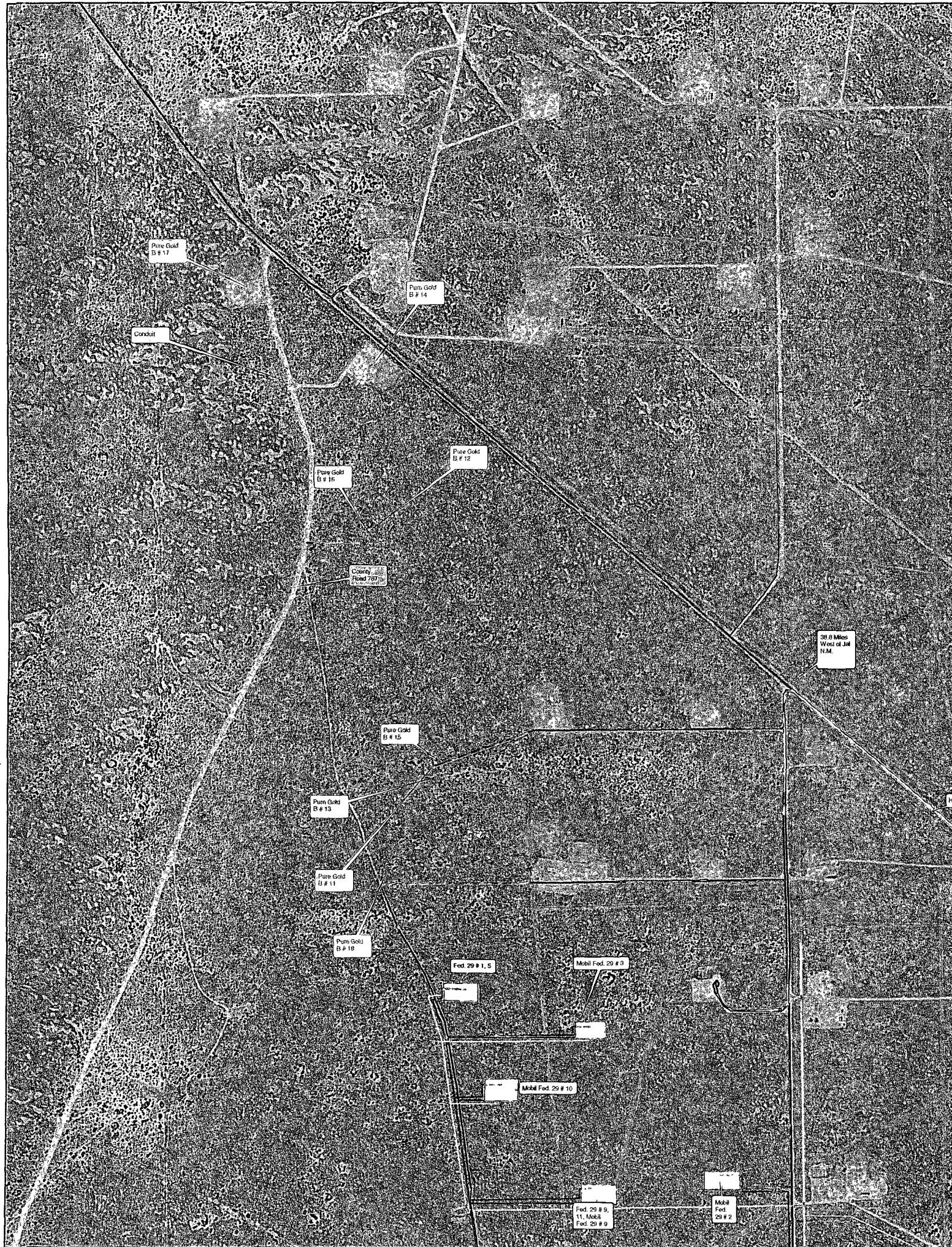
DIRECTIONS BEGINNING AT THE INTERSECTION OF HWY. #128 AND EDDY COUNTY ROAD #798 (RED ROAD), GO NORTHWEST ON HWY. #128 FOR 5.0 MILES, TURN LEFT AND GO SOUTH ON COUNTY ROAD #787 FOR 0.5 MILES, TURN LEFT AND GO EAST ON LEASE ROAD FOR 0.1 MILES TO LOCATION.



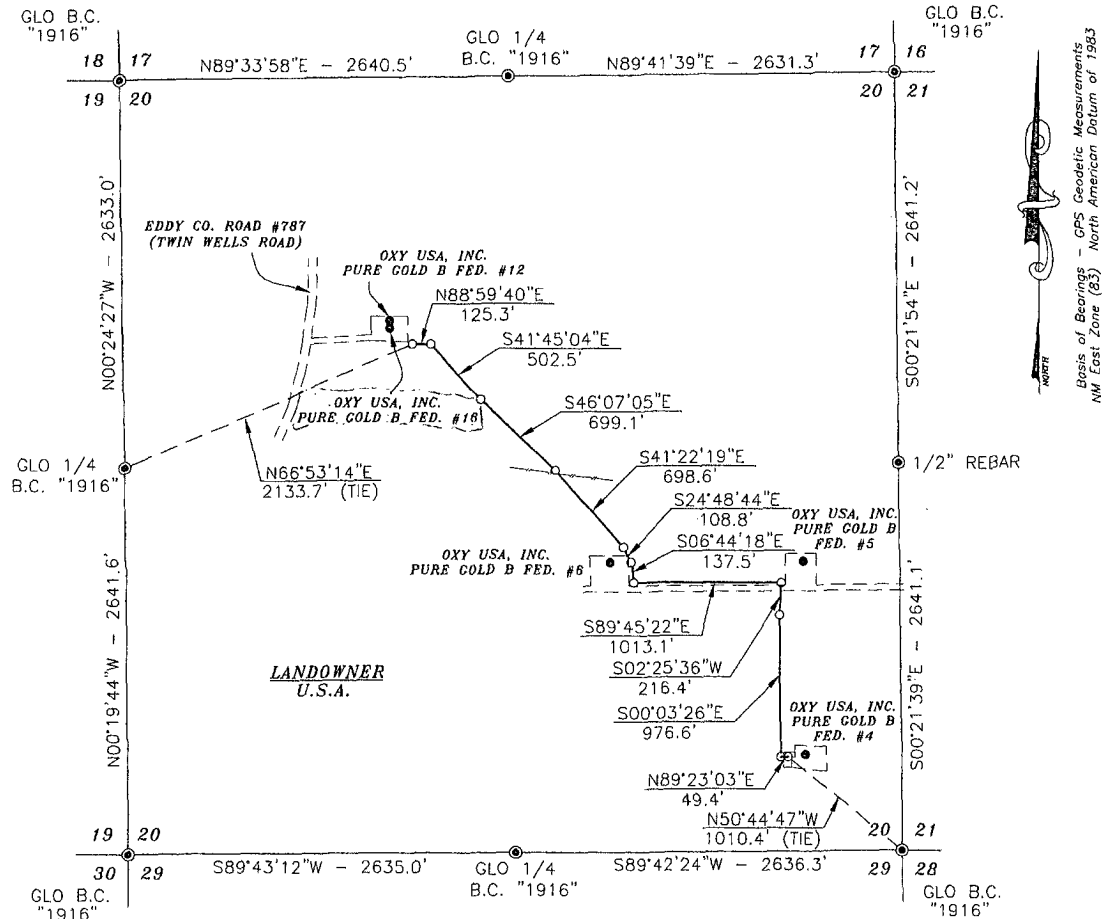








SECTION 20, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY  
NEW MEXICO



0+00.0 BEGIN SURVEY @  
OXY USA, INC.  
NAD 27 PURE GOLD B FED. #16  
LAT. = 32°17'31.60"N  
LONG. = 103°48'05.48"W  
1+25.3 P.I. 49°15'16" RT.  
6+27.8 P.I. 04°22'01" LT.  
13+26.9 P.I. 04°44'46" RT.  
13+56.2 BPL (DCP)  
20+25.5 P.I. 16°33'35" RT.

21+34.3 P.I. 18°04'26" RT.  
22+71.8 P.I. 83°01'04" LT.  
32+84.9 P.I. 92°10'58" RT.  
35+01.3 P.I. 02°29'02" LT.  
44+77.9 P.I. 90°33'31" LT.  
45+27.3 END SURVEY @  
OXY USA, INC.  
PURE GOLD B BATTERY HEADER  
NAD 27 LAT. = 32°17'03.64"N  
LONG. = 103°47'36.04"W

**DESCRIPTION**

A STRIP OF LAND 30.0 FEET WIDE AND 4527.3 FEET OR 0.857 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 20, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

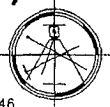
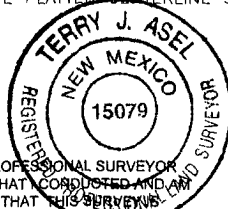
**SURVEYORS CERTIFICATE**

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL 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* 5/27/2010  
Terry J. Asel, N.M. R.P.S. No. 15079

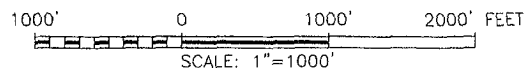
Asel Surveying

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



**LEGEND**

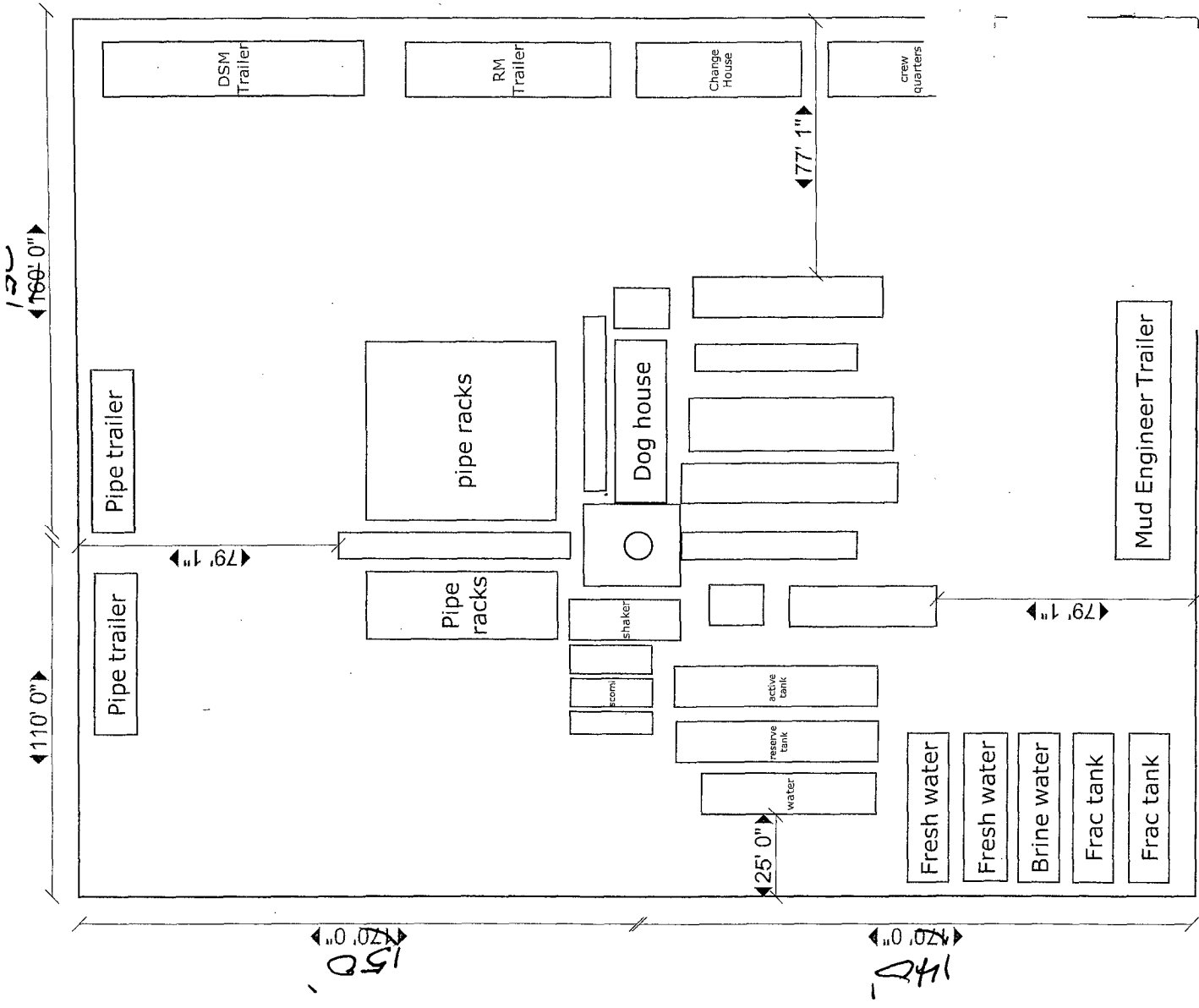
● - DENOTES FOUND MONUMENT AS NOTED



**OXY USA, INC.**

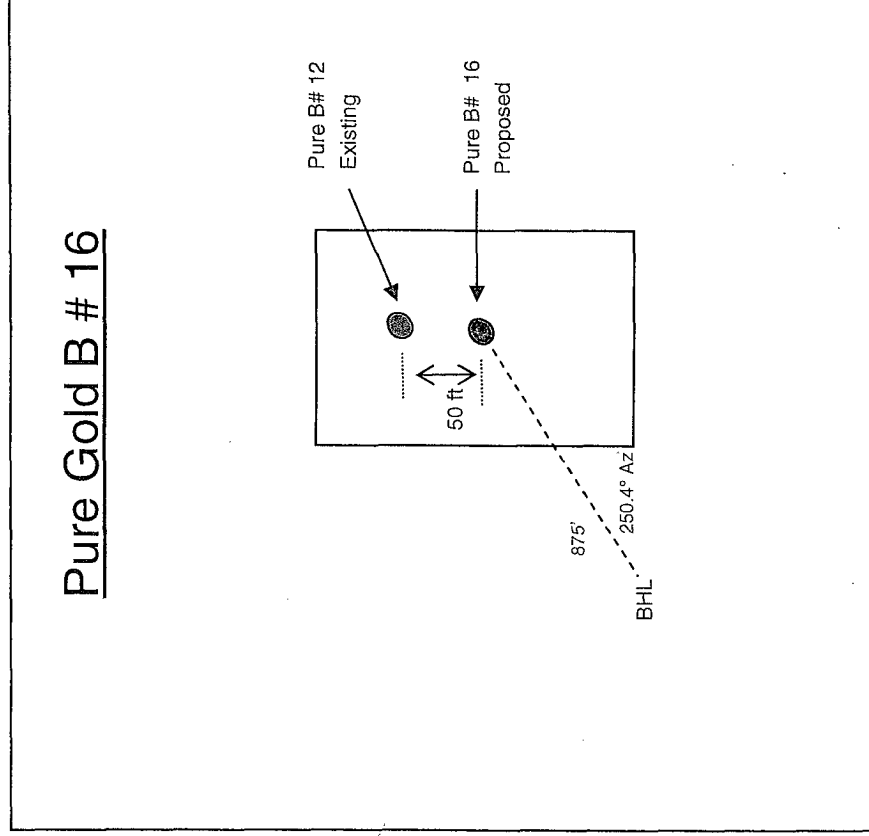
SURVEY FOR A PIPELINE EASEMENT  
CROSSING U.S.A. LAND IN SECTION 20,  
TOWNSHIP 23 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 05/18/10	Sheet 1 of 1 Sheets
W.O. Number: 100312PL-b (Rev. A)	Drawn By: KA
Date: 05/25/10	100312PL-b (Rev. A).DWG Scale: 1"=1000'

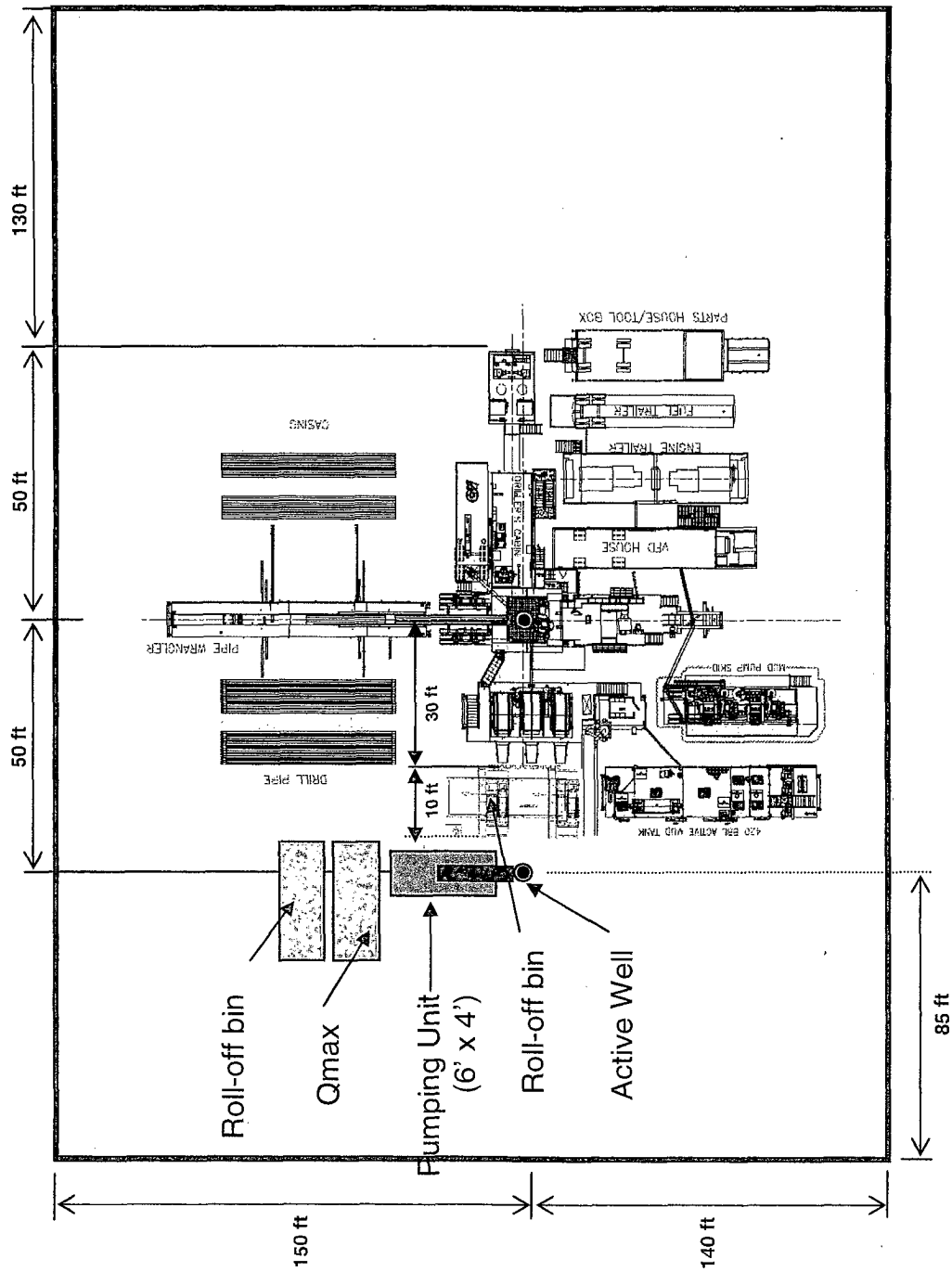


North  
↓

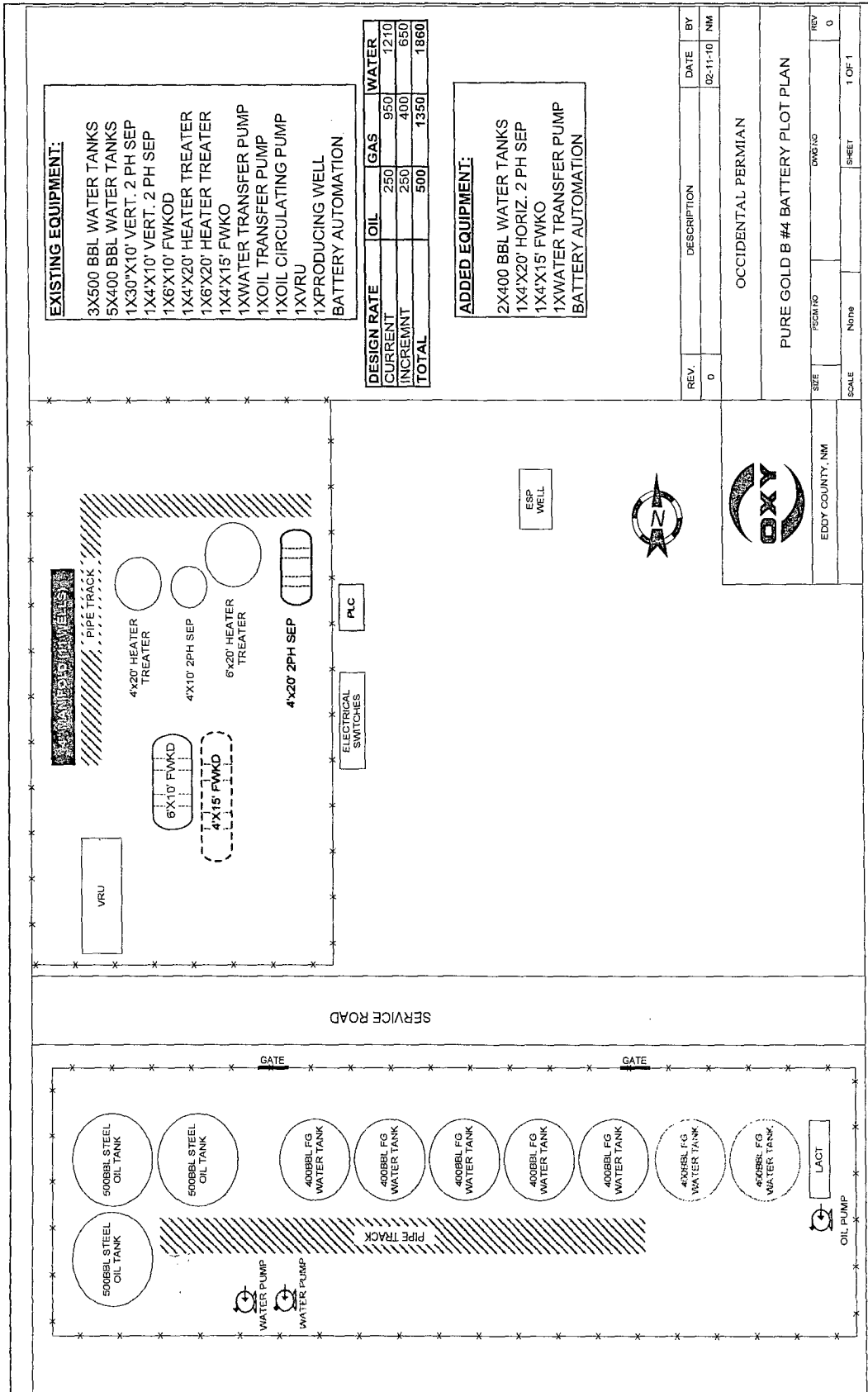
OXY USA Inc  
Section 20 Township 23 South, Range 31 East  
N.M.P.M., Eddy County, New Mexico



# LOCATION FOR MULTIPLE WELLS (POTASH FIELD)

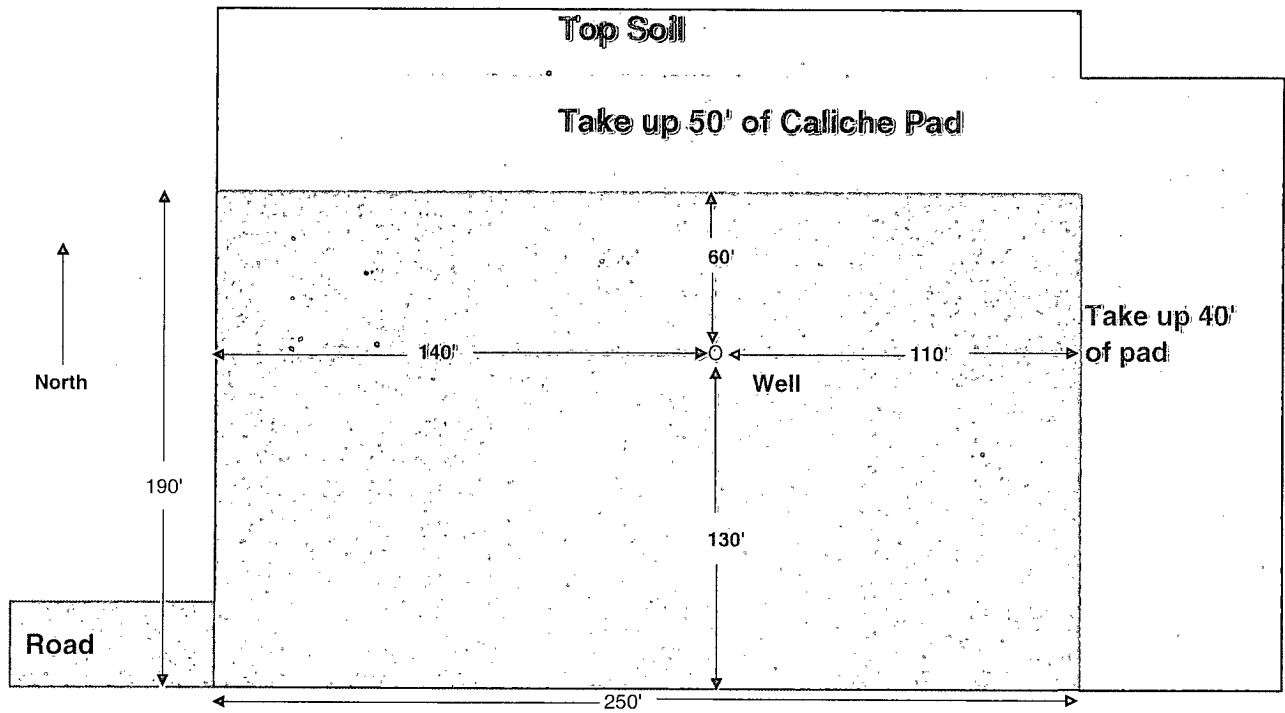


➡ Rig will be moved on this direction





# H & P Flex 4 Rig



If road comes into the Southwest corner of pad Oxy will take up and re-seed 40' on east side and 50' on north side of pad