

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address PURVIS OPERATING CO. P O BOX 11006 MIDLAND, TX 79702-8006		² OGRID Number 131559
³ Property Code		³ API Number 30 - 015 - 32938
⁵ Property Name ESPERANZA 22 STATE COM		⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	22	21 S	27 E		1775	SOUTH	660	EAST	EDDY

⁸ Proposed Bottom Hole Location If Drilling From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	County
⁹ Proposed Pool 1 BURTON FLAT MORROW						☒ Cement to cover all oil, gas and water bearing zones.

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3225
¹⁶ Multiple No	¹⁷ Proposed Depth 11,900'	¹⁸ Formation MORROW	¹⁹ Contractor NOT KNOWN	²⁰ Spud Date 09/01/2003

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48	500	400 sks	Circl
12 1/4"	9 5/8"	40	2630	1000 sks	Circl
8 3/4" ↓ 7 7/8"	5 1/2"	17 & 20	11,900	900 sks	8000'

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.
Describe the blowout prevention program, if any. Use additional sheets if necessary.

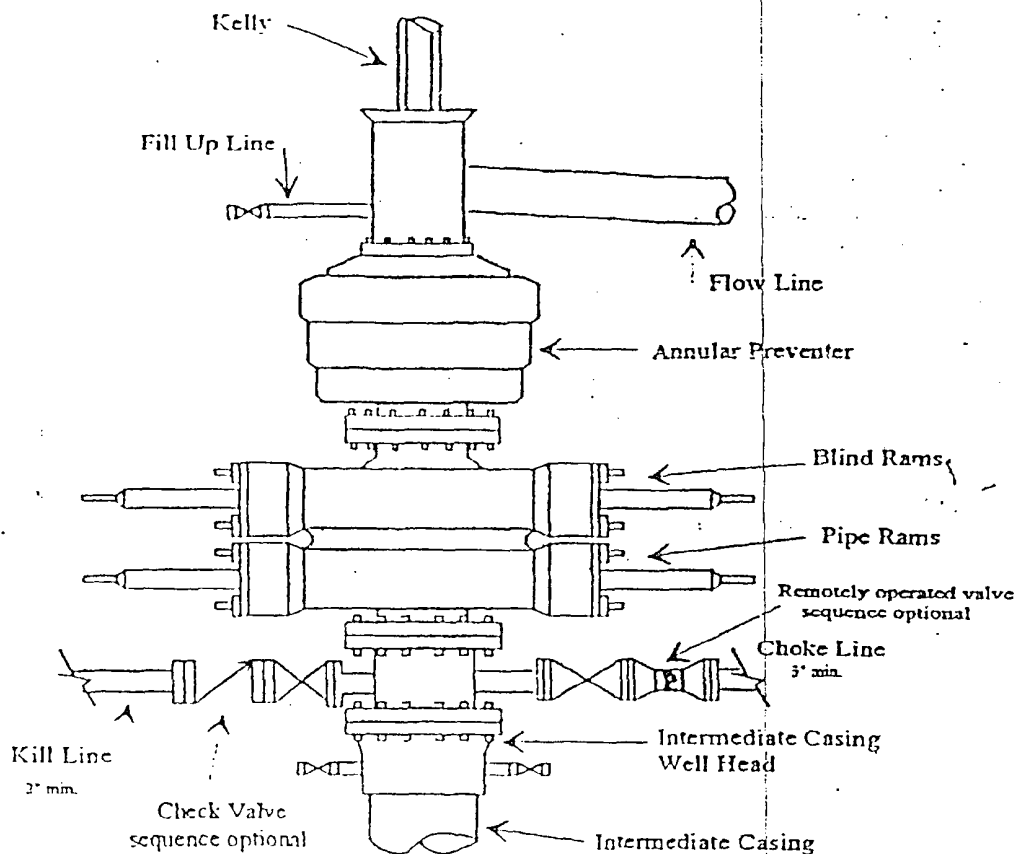
Drill 17 1/2" hole to 500' with fresh water. Set 13 3/8" casing and circulate cement to surface. Drill 12 1/4" hole to 2630' with fresh water. Set 9 5/8" casing and circulate cement to surface. Test BOPs to 2500 psi before drilling out. Test casing shoe to 12# equil. mud. Drill 8 3/4" hole and reduce hole size to 7 7/8" when possible. Drill to TD of 11,900' with 9.2# to 10.3# mud. Run open hole logs. If commercial, run 5 1/2" casing and cement 600' above top most pay. Rotating head, PVT, flow monitors and mud gas separator will be used from Wolfcamp to TD. See attached BOP Schematic.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Donnie E. Brown</i> Printed name: DONNIE E. BROWN Title: Petroleum Engineer Date: July 30, 2003 Phone: 432-682-7346		OIL CONSERVATION DIVISION Approved by: <i>Jim W. Gunn</i> Title: District Supervisor Approval Date: AUG 10 2003 Expiration Date: AUG 10 2004 Conditions of Approval: Attached ☐	
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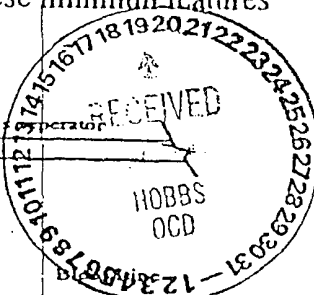
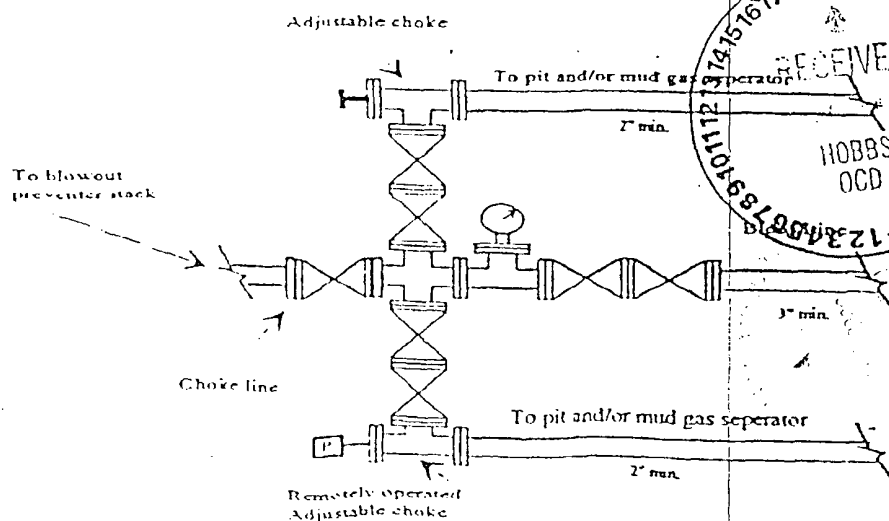
NOTIFY OCD SPUD & TIME
TO WITNESS 8 5/8" CASING



Typical 5,000 psi Pressure System Schematic Annular with Double Ram Preventer Stack



Typical 5,000 psi choke manifold assembly with at least these minimum features



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2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, N M 87505

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name BURTON FLAT MORROW
Property Code	Property Name ESPERANZA 22 STATE COM	Well Number 1
OGRID No.	Operation Name PURVIS OPERATING COMPANY	Elevation 3225

Surface Location

UL or Lot No. I	Section 22	Township 21 S	Range 27 E	Lot Idn.	Feet from the 1775	North/South line SOUTH	Feet from the 660	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

OPERATOR CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Donnie E. Brown
Signature

Printed Name **Donnie E. Brown**

Title **Petroleum Engineer**

Date **July 30, 2003**

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 KNOWLEDGE AND BELIEF.

SEPTEMBER 14, 2002

Date of Survey

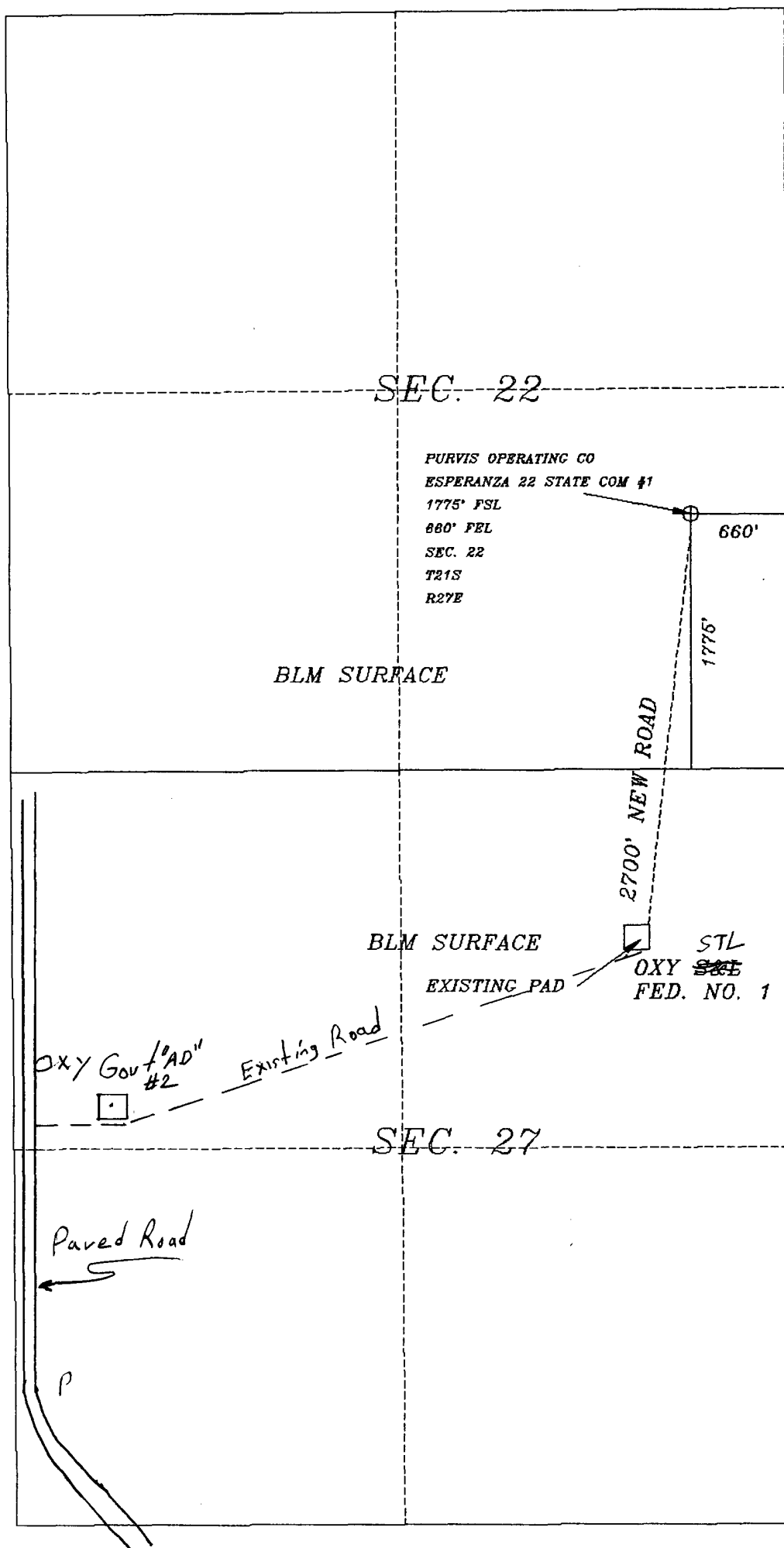
Signature and Seal of Professional Surveyor

W. REDDY
REGISTERED PROFESSIONAL SURVEYOR
NEW MEXICO
5412
NM PROFESSIONAL SURVEYOR
Certificate Number



660'
1775'

PROPOSED ROAD SKETCH



Scale 1" = 1000 ft



This plat
only as a
ords here
effected b
Refer to

**Purvis Operating Co.
P O Box 11006
Midland, TX 79702-8006**

Hydrogen Sulfide (H₂S) Contingency Plan

for

**Esperanza 22 Com State #1
1775 ft. FSL, 660 ft. FEL
Section 22, T-21S, R-27E
Eddy County, NM**

Emergency Procedures

There are no known formations that produce H₂S in this area and no H₂S is expected to be released into the atmosphere. However, should loss of circulation be encountered below the intermediate string, H₂S monitors and air packs will be installed immediately. There are no known public housing within 1 ½ miles of the location. The nearest public highway is the Carlsbad Bypass about 0.8 miles to the west.

In the case of a release of gas containing H₂S, the first responder(s) must isolate the area and prevent entry by other persons into the 100 ppm ROE. Additionally, the first responder(s) must evacuate the any public places encompassed by the 100 ppm ROE. First responder(s) must take care not to injure themselves during this operation. Company and/or local officials must be contacted to aid in this operation. Evacuation of the public should be beyond the 100 ppm ROE.

All responders must have training in the detection of H₂S, measures for protection against the gas, equipment used for protection and emergency response. Additionally, responders must be equipped with H₂S monitors and air packs in order to control the release. Use the "buddy system" to ensure no injuries during the response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (802). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm ⁴	100 ppm/hr	600 pip
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 pip	N/A	1000 ppm

Contacting Authorities

Purvis Operating Co. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Purvis Operating Co.'s response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan.' (HMER)

COMPANY CALL LIST

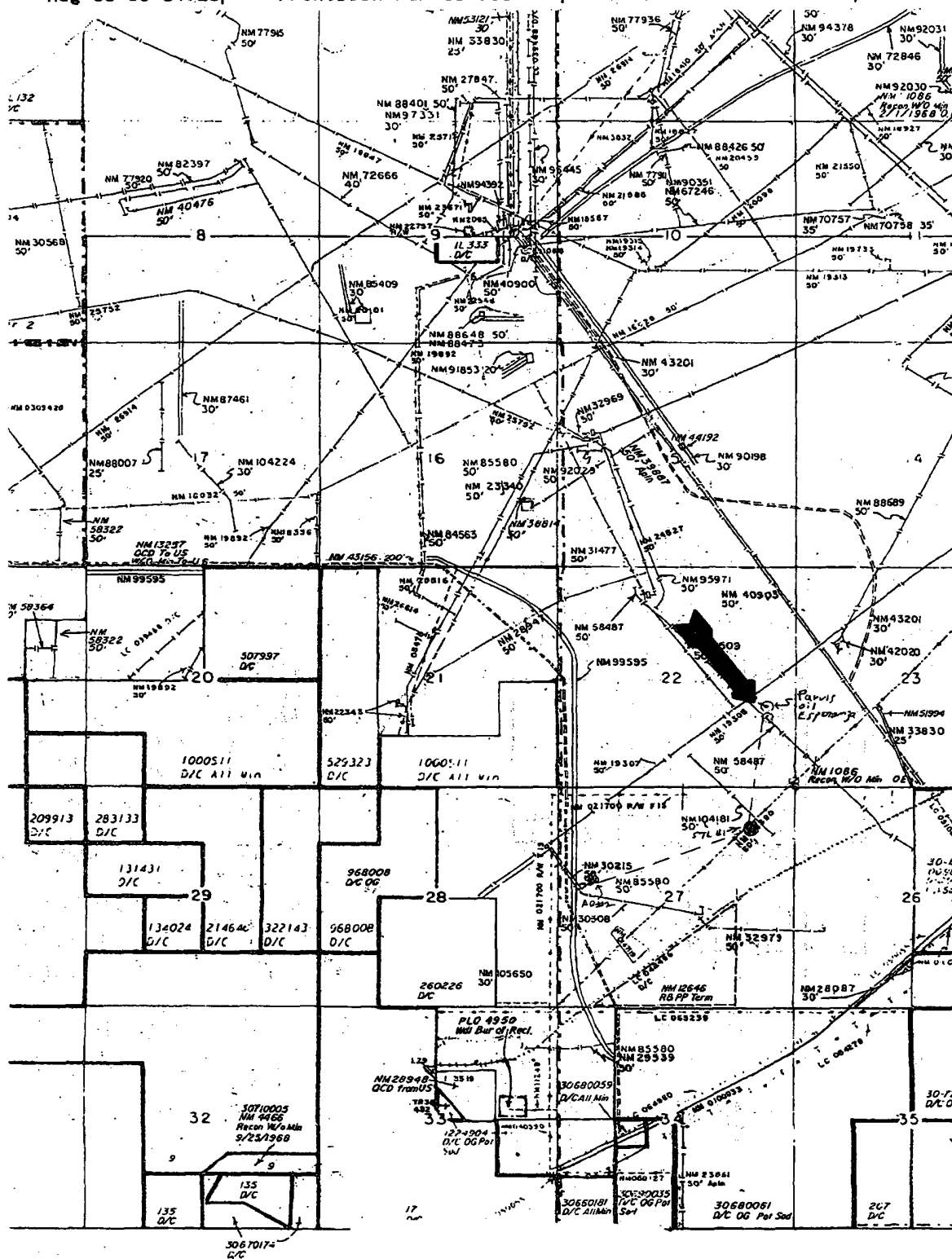
<u>Midland, Texas (432)</u>	<u>Office</u>	<u>Cell Phone</u>	<u>Home</u>
Donnie Brown	682-7346	638-3441	699-7855
James Purvis	682-7346	638-6770	697-3206
Mark Dehlinger		528-6751	686-7929

AGENCY CALL LIST**EDDY COUNTY (505)****CARLSBAD**

State Police	885-3137
City Police	885-2111
Sheriffs Office	887-7551
Ambulance.....	911
Fire Department	885-2111
LEPC (Local Emergency Planning Committee).....	887-3798
NMOCD	748-1283

OTHER

Boots & Coots IWC	1-800-256-9688 or (281) 931-8884
Cudd Pressure Control	(915) 699-0139 or (915) 563-3356
Halliburton	(505) 746-2757
B. J. Services.....	(505) 746-3569
Flight For Life - 4000 24 th St., Lubbock, TX	(806) 743-9911
Aerocare - RR3 Box 49f, Lubbock, TX.....	(806) 747-8923
Med Flight Air Amb - 2301 Yale Blvd SE #D3, Albuq, NM	(505) 842-4433
S B Air Med Svc - 2505 Clark Carr Loop SE, Albuq, NM.	(505) 582-4949



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PURVIS OPERATING CO.

Lease Road May

Esperanza 22 State Com #1**Eddy County, NM**