

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

Form C-101
May 27, 2004

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

RECEIVED
Submit to appropriate District Office
JUL 25 2006 ☐ AMENDED REPORT

~~DO NOT ATTACH~~

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

¹ Operator Name and Address PURVIS OPERATING CO. P O BOX 51990, MIDLAND, TX 79710-1990		² OGRID Number 131559 ✓ ³ API Number 30-015-33555
³ Property Code 32697 ✓	⁵ Property Name ESPERANZA 22 STATE COM	⁶ Well No. 2
⁹ Proposed Pool 1 BURTON FLAT MORROW 73280 ✓		¹⁰ Proposed Pool 2

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
L	22	21S	27E		1980	South	660	West	Eddy

⁸ Proposed 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

Additional Well Information

¹¹ Work Type Code D	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3248'
¹⁶ Multiple No	¹⁷ Proposed Depth 11,900	¹⁸ Formation MORROW	¹⁹ Contractor Not Known	²⁰ Spud Date 9/15/2006
Depth to Groundwater 100'		Distance from nearest fresh water well - 1 mile		Distance from nearest surface water - 3 1/4 miles
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12_mils thick Clay <input type="checkbox"/> Pit Volume: 1000 bbls Drilling Method:				
Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

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 lbs.	503'	780 sks	Surface
12 1/4"	9 5/8"	36 lbs.	2696'	800 sks	Surface
8 3/4"	7"	26 lbs.	9350'	400 sks	4600'
6 1/8"	5"	18 lbs.	11,900'	250 sks	9200'

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.

Squeeze off the current Wolfcamp perforations (9090'-9110'). Install 5000 psi BOPs and test. Drill out float shoe and deepen to 11,900'±. Run open hole logs. If commercial, run 5" liner to 11,900'. Set at top of lines at 9200'. Cement w/250 sks to top of liner. Rotating head, PVT, flow monitors and mud gas separator will be used when deepening well. All H₂S zones have already been cased off.

CEMENT TO COVER ALL OIL,
GAS AND WATER BEARING
ZONES

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> as a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: DONNIE E. BROWN <i>Donnie E Brown</i>		Approved by: BRYAN G. ARRAÑT	
Title: Petroleum Engineer		DISTRICT II GEOLOGIST	
E-mail Address: eng@purvisop.com		Approval Date: AUG 21 2006	Expiration Date: AUG 21 2007
Date: July 21, 2006	Phone: 432-682-7346	Conditions of Approval Attached <input type="checkbox"/>	

Revised March 17, 1999

District I
1825 N. French Dr. Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION JUL 25 2006

2040 South Pacheco

Santa Fe, N M 87505

Submitted to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

UUU-ARTESIA

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 73280	Pool Name Burton Flat Morrow
Property Code 3269 7	Property Name ESPERANZA 22 STATE COM	Well Number 2
OGRID No. 131559	Operation Name PURVIS OPERATING COMPANY	Elevation 3248

Surface Location

UL or Lot No. L	Section 22	Township 21-S	Range 27-E	Lot Idn.	Feet from the 1980	North/South line SOUTH	Feet from the 660	East/West line WEST	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.						

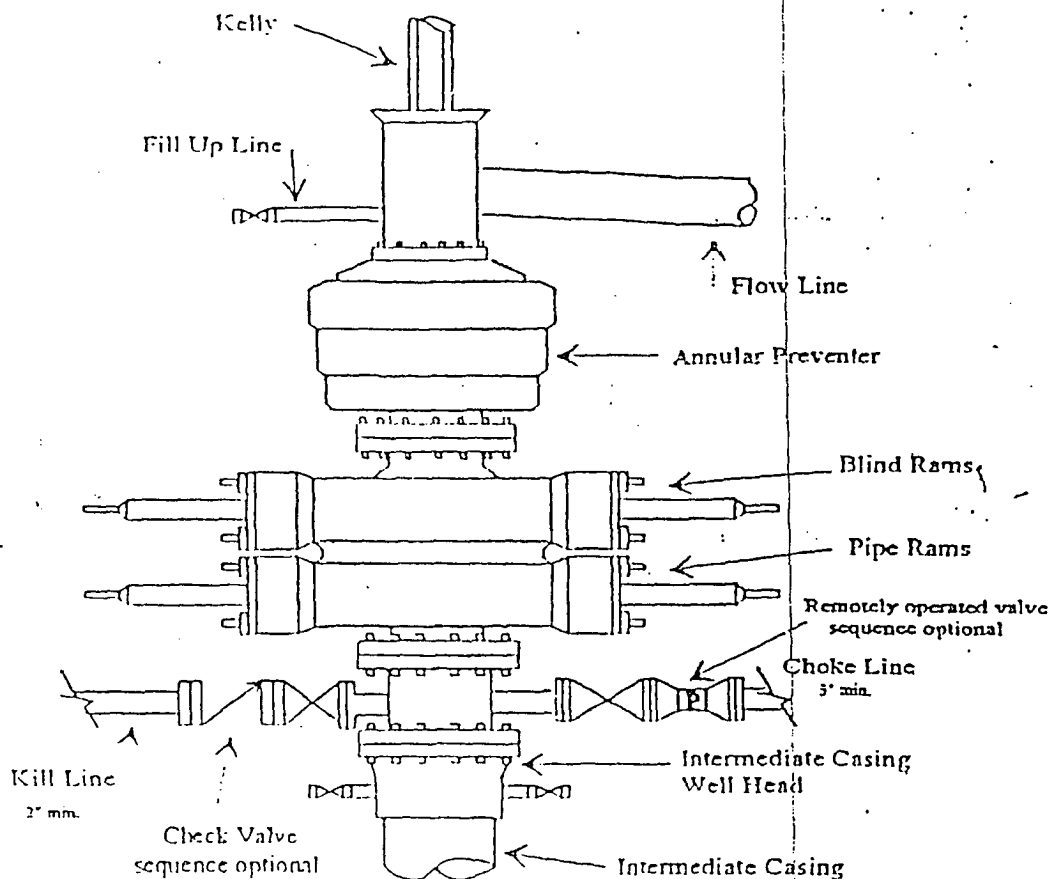
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION I HEREBY CERTIFY THAT THE INFORMATION HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.</p>	
	<p>Signature <i>Donnie E. Brown</i></p>	
	<p>Printed Name Donnie E. Brown</p>	
	<p>Title Petroleum Engineer</p>	
<p>Date 8-9-04</p>		<p>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.</p>
<p>JULY 21, 2004</p>		<p>Date of Survey</p>
<p>Signature and Seal of Professional Surveyor</p>		<p><i>Donnie E. Brown</i></p>
<p>NEW MEXICO</p>		<p>5412</p>
<p>NM RE&PS #5412</p>		<p>Certificate Number</p>

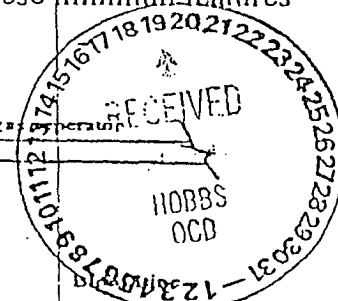
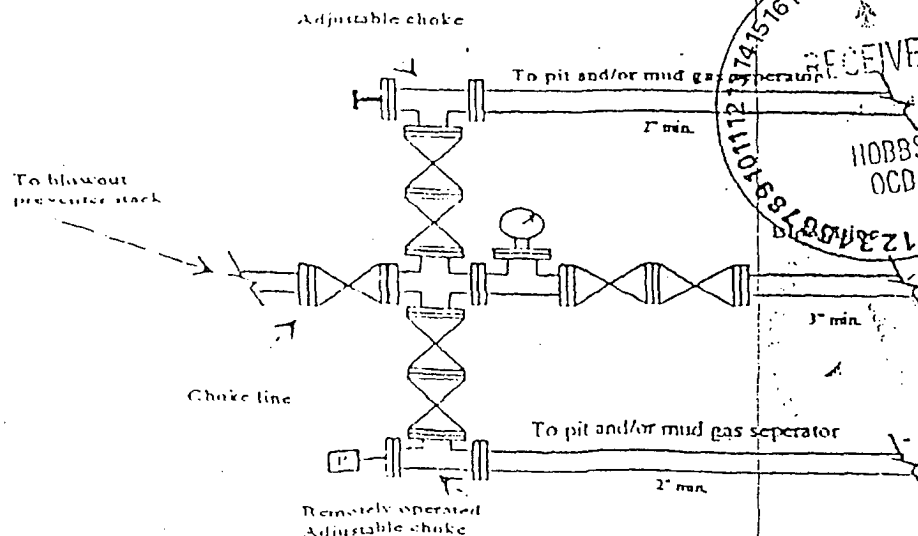
PURVIS OPERATING CO.
Esperanza 22 State Com #2



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



**PURVIS OPERATING CO.
P O BOX 11006
MIDLAND, TEXAS 79702-8006**

**Hydrogen Sulfide (H₂S) Contingency Plan
for**

**Esperanza 22 State Com #2
1980 ft. FSL, 660 ft. FWL
Section 22, T-21S, R-27E
Eddy County, New Mexico**

**PURVIS OPERATING CO.
ESPERANZA 22 STATE COM #2
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 0.2 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 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	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.

**PURVIS OPERATING CO.
ESPERANZA 22 STATE COM #2
EDDY COUNTY, NM**

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 24th 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

Arrant, Bryan, EMNRD

From: Arrant, Bryan, EMNRD
Sent: Friday, August 04, 2006 10:26 AM
To: 'eng@purvisop.com'
Cc: Gum, Tim, EMNRD
Subject: Esperanza 22 State Com. # 2

Dear Mr. Brown or To Whom It May Concern,

Please submit an amended current C-102 that is available on our web site and completely filed out. Example- What is the calculated dedicated acreage?

As discussed previously on other matters in submitting regulatory applications and reports, I cannot approve applications that are incomplete.

Please call if you have any questions.

Yours truly,

Bryan G. Arrant
NMOCD District II Geologist, Artesia
505-748-1283 ext. 103

8/4/2006