District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101 Permit 1162

APPLICATION FOR PERMIT TO DRILL

CHESAPEAKE OPERATING, PO Box 18496 Oklahoma City, OK 73154-04		OGRID Number 147179  API Number 30-015-33504
Property Code	Property Name	Well No.
300166	TELEDYNE 20	005

#### **Surface Location**

UL or Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	3
J	20	23S	29E	J	1980	S	2310	Е	Eddy	de d

#### **Proposed Pools**

#### HARROUN RANCH; DELAWARE, NE 96878

Work Type New Well	Well Type OIL	Cable/Rotary	Lease Type Private	Ground Level Elevation 2959
Multiple	Proposed Depth	Formation	Contractor	Spud Date
N	6800	Delaware		08/15/2004

#### **Proposed Casing and Cement Program**

Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	400	350	0
Int1	11	8.625	32	2800	600	0
Prod	7.875	5.5	17	6800	900	2700

#### Casing/Cement Program: Additional Comments

Drill 17 1/2 hole to 400 w/fr wtr. NU annular prevento and test to 1000# w/rig pump. Drill 11 hole to 2800 w/cut brine. NU 3000# BOP & test to 3000#. Drill 7 7/8 hole w/cut brine, starch & gel to 6800.

#### **Proposed Blowout Prevention Program**

-	Туре	Working Pressure	Test Pressure	Manufacturer
	Annular	2000	1000	
	Annular	3000	3000	

	e information given above is true a	OIL CONSERVATION DIVISION		
complete to the best of my knowledge and belief.		Electronically Approved By: Bryan Arrant		
Electronically Signed	By: Mark Mabe	Title: Geologist		
Title: Manager		Approval Date: 07/16/2004 Expiration Date: 07/16/2005		
Date: 06/30/2004	Phone: 432-685-4339	Conditions of Approval: There are conditions. See Attached.		

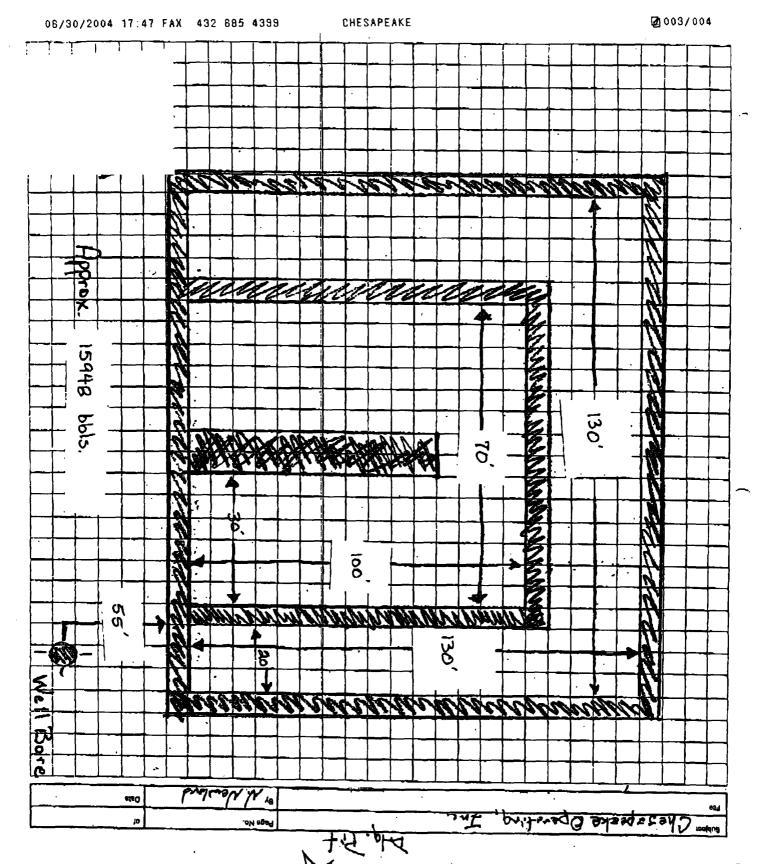
District |
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# State of New Mexico Bnergy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-144 March 12, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fo office

Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes [] No X Type of action: Registration of a pit or below-grade tank [3] Geome of a pit or below-grade t 432 Iolophous: 683-7443 o-mail eddress: Muchtefield@chkenergy.com Operator. Chesapeake Address: 550 W. Texas Ave. \$ 1300 Midland Texas 79701 Facility or well name: Telection 20 4 5 API#: U/Lor Qe/Qer T See 20 T 23 R 29 Letterde N 2 17 19.2" Longitude N 10 4" 00 21.3" NAD: 1927 | 1983 Starface Owner Pederal | Starte | Private | Indian | County Eddy Pit Below-grade tank Type: Drilling & Production Disposal Volume: \_\_\_\_bbl Type of fluid: Workover Benergency Construction material: Lined Willined Double-walled, with look detection? Yes [] If not explain why not Liner type: Symbotic 🕅 Thickness 12 mil Clay 🗌 Volume 5948 bbi Less than 50 feet (20 paints) Depth to ground water (vertical distance from bottom of pit to scannal high 50 feet or more, but less than 100 feet (10 points) water elevation of ground water.) 100 feet or more (Opointa) Yes Validaced protection area: (Less than 200 feet from a private don (20 points) ser source, or less than 1000 feet from all other water sources.) **(M)** ( 0 points) 0 Less than 200 feet (20 poists) Distance to surface water: (horizontal distance to all wetlands, played 200 fast or more, but less than 1000 feet inigation canale, dimbes, and perennial and sphemeral watercourses. (10 points) 1000 feet or more ( 0 points) Ranking Score (Total Points) If this is a pit clasure: (1) abach a diagram of the facility showing the pit's relationably to other equipment and make. (2) indicate disposal location: cousite [ offsite [ if offsite, name of facility (3) Attach a general description of remedial action taken including remediation start data and end data. (4) Groundwaler encountered: No [] Yes [] If yes, show depth below ground surface. A and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavarious I bereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines [5], a general permit [7], or the (attached) alternative OCD approved plan [7]. ke Whitetield Printed Name/Title Field Rep. Signal Your certification and MMOCD approval of this application/closure obes not relieve the operator of liability about the potonicans of the pit or tank contaminate ground water or otherwise carlanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or Approval: Date: <u>7/9/</u>04 monthle Seakler Printed Name/Title#1/KO

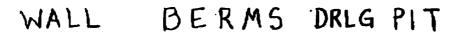


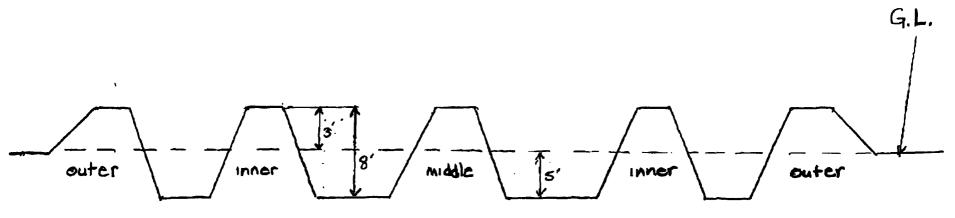
(204) 266-0411 0022-YES (YEE) 00S1-TT8 (18S)

NEW ORLEANS, LA AL STEYATAL XT ,NOTSUOH

(361) \$76-5297 977-789 (916)

VICTORIA, TX OKT HOWY CILL! OK (402) 810-0051 XT, QNAJOIM





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87555

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

Form C-102 Permit 1162

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-33504	Pool Name HARROUN RANCH;DELAWARE, NE	Pool Code 96878
Property Code 300166	Property Name TELEDYNE 20	Well No. 005
OGRID №. 147179	Operator Name CHESAPEAKE OPERATING, INC.	Elevation 2959

#### **Surface And Bottom Hole Location**

UL or Lot	Section 20	Township 23S	Range 29E	Lot Idn J	Feet From 1980	N/S Line S	Feet From 2310	E/W Line E	County Eddy
Dedicat	ed Acres 0	Joint or	Infill	Consoli	dation Code		Order 1	No.	A-644

	3	

#### **OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Electronically Signed By: Mark Mabe

Title: Manager
Date: 06/30/2004

#### 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.

Surveyed By: Gary L. Jones Date of Survey: 06/06/2004 Certificate Number: 7977

# **Permit Comments**

**Operator: CHESAPEAKE OPERATING, INC., 147179** 

Well: **TELEDYNE 20 #005** 

User Name	Comment	Comment Date
BARRANT	Operator to submit h2s contingecy plan if area meets requirements of Rule 118.	7/1/2004

# Permit Conditions Of Approval C-101, Permit 1162

**Operator: CHESAPEAKE OPERATING, INC., 147179** 

Well: **TELEDYNE 20 #005** 

OCD Reviewer	Condition	
BARRANT	Operator to set surface casing above Salado formation. 400-425. Please refer to offset logs for more information.	

## Chesapeake Operating, Inc. P. O. Box 11050 Midland, Texas 79702-8050

July 14, 2004

Oil Conservation Commission State of New Mexico 1301 W. Grand Avenue Artesia, New Mexico 88210

Attention: Mr. Bryan Aarant

RE: Teledy

Teledyne 20, Well #5 1980' FSL & 2310' FEL Section 20, T23S, R29E Eddy County, New Mexico

30-015-33504

Dear Bryan:

Per your request, this letter is in reference to the OCD's requirements for H2S contingency plan for the above captioned well. No H2S, abnormal pressures or temperatures are expected in the drilling of the above captioned well. H2S detection equipment will be installed prior to the top of the Delaware formation as a precautionary measure.

Yours truly,

Brenda Coffman Regulatory Analyst

BC

S 15

#### Hydrogen Sut ? 3 Drilling Operations Plan

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
  - A. Characteristics of H2S
  - B. Physical effects and hazards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H2S detectors, warning system and briefing
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.
- 2 H2S Detection and Alarm Systems
  - A. H2S detectors and audio alarm system to be located at bell nipple, end of bloole line (mud pit) and on demick floor or doghouse.
- 3 Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - 8. Windsock at briefing area should be high enough to be visible.
  - C. There should be a windsock at entrance to location.
- 4 Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5 Well control equipment
  - A. See exhibit "E"
- 6 Communication
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or fiving quarters.
- 7 Drillstern Testing
  - A. Exhausts will be watered.
  - B. Flare line will be equipped with an electric ignitor or a propene pilot light in case gas reaches the surface.
  - C. If location is near any dwelling a closed DST will be performed.

### Hydrogen Sulfide Drilling Operations Plan

- 8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9 If H2S is encountered, mud system will be attered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H2S scavengers if