

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

Oil Conservation Division

2040 South Pacheco

Santa Fe, NM 87505

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

Operator Name and Address ARCH PETROLEUM, INC. P.O. BOX 10340 MIDLAND, TEXAS 79702-7340		OGRID Number 962
Property Code 33464	Property Name KELLY STATE	API Number 30-025-36981
		Well No. 5

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	23S	37E		910'	SOUTH	1230'	WEST	LEA

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
Proposed Pool 1 (37240)					Proposed Pool 2 3				
LANGLIE MATTIX-& RIVERS, QUEEN, GRAYBURG									

Work Type Code N	Well Type Code O	Cable/Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3315'
Multiple NO	Proposed Depth 3900'	Formation QUEEN	Contractor UNKNOWN	Spud Date WHEN APPROVED

Proposed Casing and Cement Program

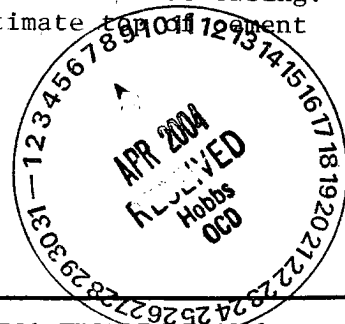
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
25"	20"	Conductor	40'	Redi-mix	Surface
12 1/4"	8 5/8"	32#	1100'	650 Sx.	Surface
7 7/8"	4 1/2"	11.6#	3900'	750 Sx.	750' ± FS.

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.

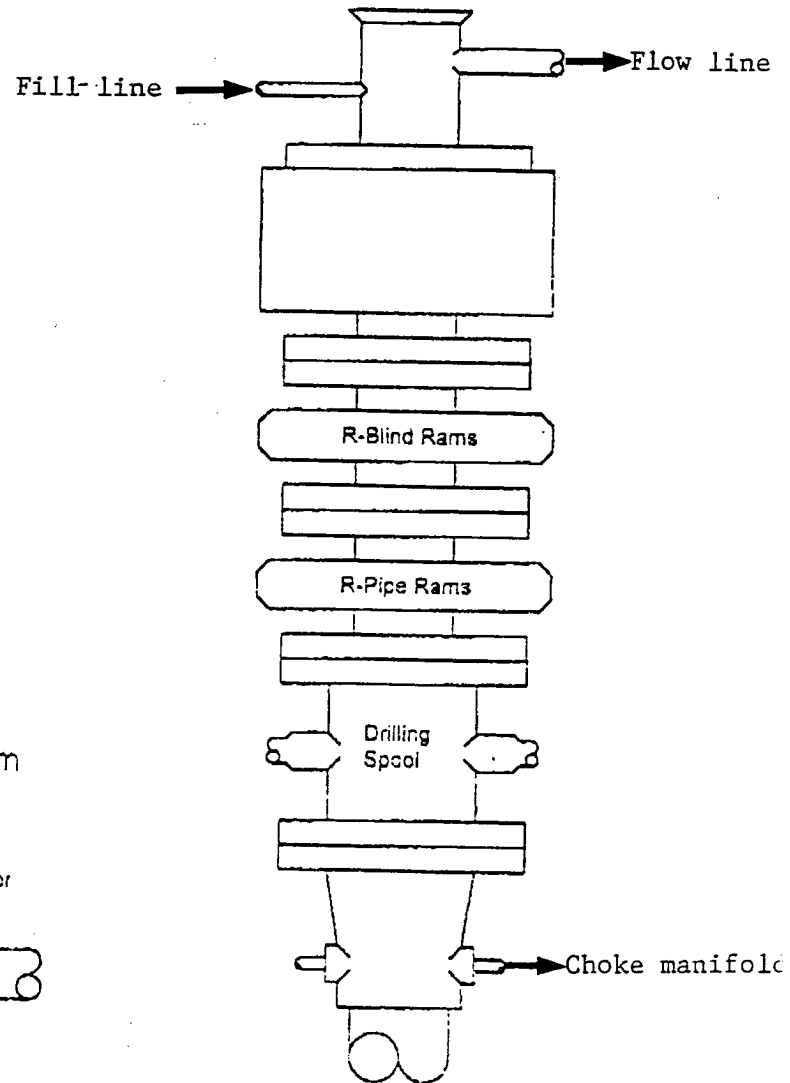
1. Drill 25" hole to 40'. Set 40' of 20" conductor and cement to surface with Redi-mix.
2. Drill 12 1/4" hole to 1100'. Run and set 1100' of 8 5/8" 32# J-55 ST&C casing. Cement with 650 Sx. of Class "C" cement + 2% CaCl₂ + 1/4# Flocele/Sx. Circulate cement to surface.
3. Drill 7 7/8" hole to 3900'. Run and set 3900' of 4 1/2" 11.6# J-55 ST&C casing. Cement with 750 Sx. of Class "C" cement + additives, estimate 750' from surface.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway



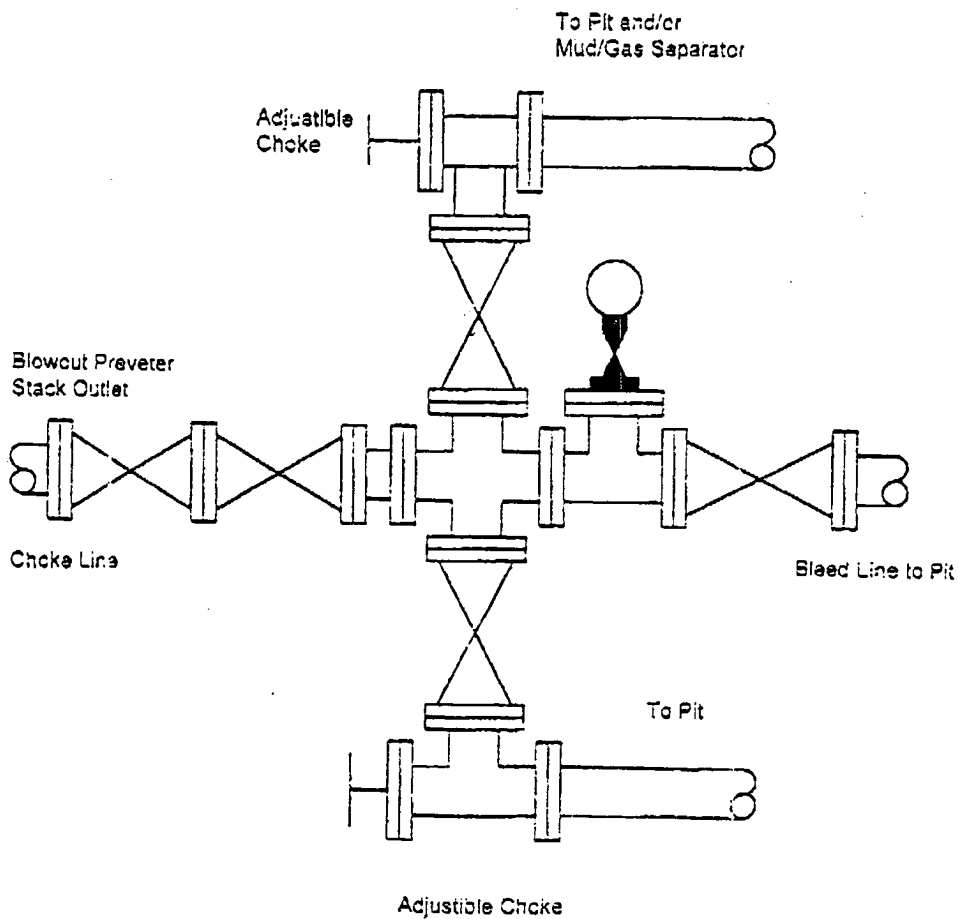
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: Joe T. Janica		Approved by: [Signature] PETROLEUM ENGINEER	
Printed name: Joe T. Janica		Title:	
Title: Agent		Approval Date: DEC 03 2004	
Date: 04/07/04		Expiration Date:	
Phone: 505-391-8503		Conditions of Approval:	
		Attached <input type="checkbox"/>	

BLOWOUT PREVENTER SYSTEM



Type 900 Series
3000 psi WP

Choke Manifold Assembly for 3M WP System



DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36981	Pool Code 37240	Pool Name LANGLIE MATTIX-7 RIVERS, QUEEN, GRAYBURG
Property Code 33464	Property Name KELLY STATE	Well Number 5
OGRID No. 962	Operator Name ARCH PETROLEUM, INC.	Elevation 3315'

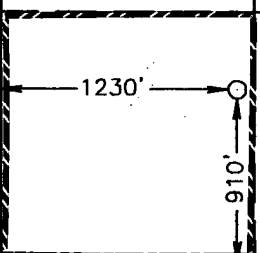
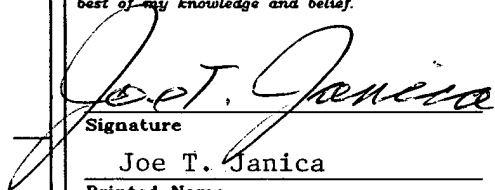
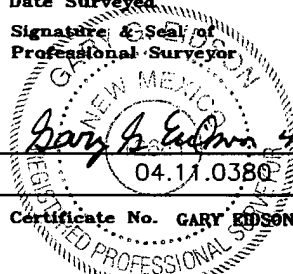
Surface Location

UL or lot No. M	Section 16	Township 23-S	Range 37-E	Lot Idn	Feet from the 910	North/South line SOUTH	Feet from the 1230	East/West line WEST	County LEA
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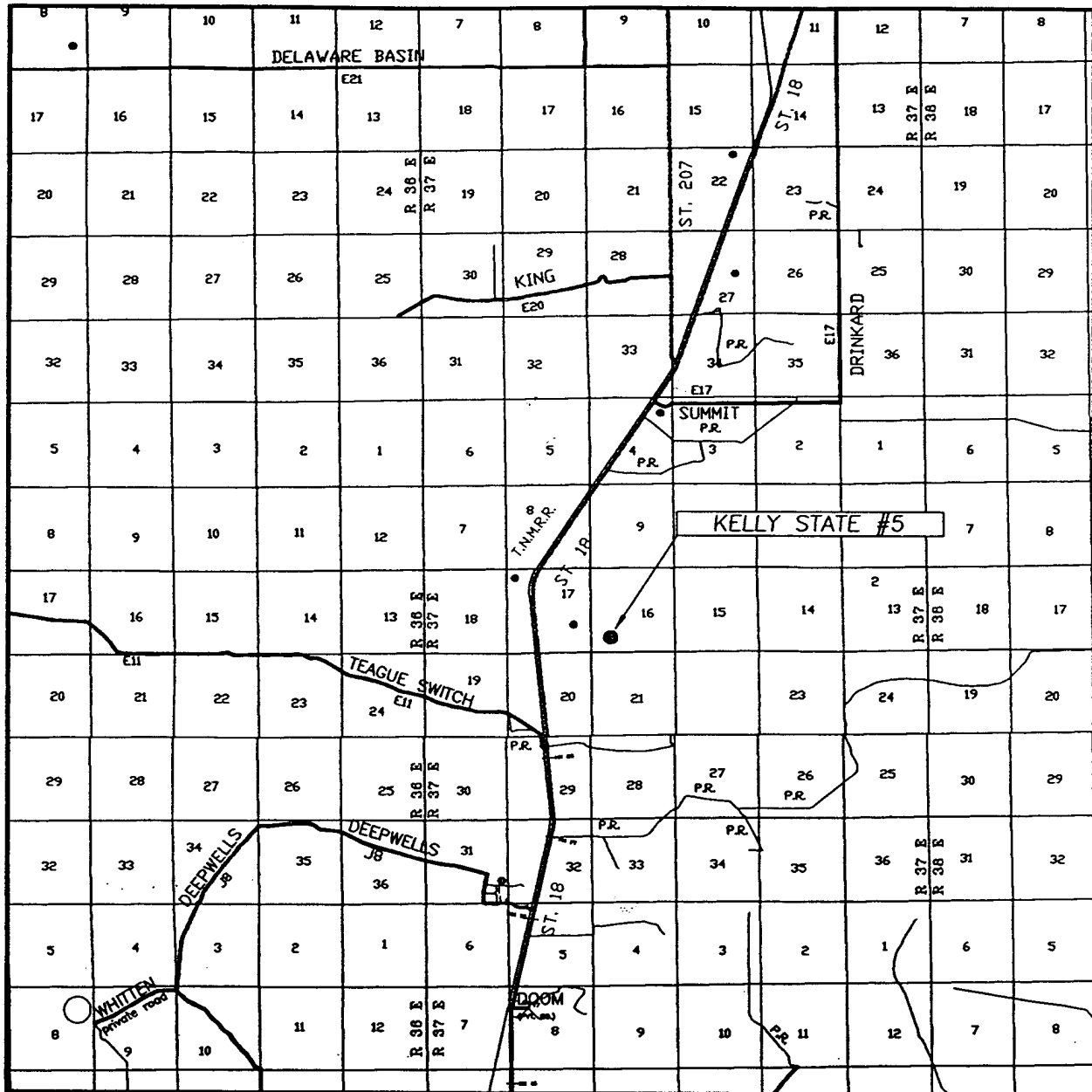
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. R-12236						

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

	GEODETIC COORDINATES NAD 27 NME Y = 474649.4 N X = 858834.1 E LAT. 32°17'58.51"N LONG. 103°10'19.30"W	
OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Joe T. Janica Printed Name Agent Title 04/07/04 Date		
SURVEYOR CERTIFICATION <i>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.</i> March 31, 2004 Date Surveyed A.W.B. Signature & Seal of Professional Surveyor  Certificate No. GARY EDMON 12641		

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 16 TWP. 23-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 910' FSL & 1230' FWL

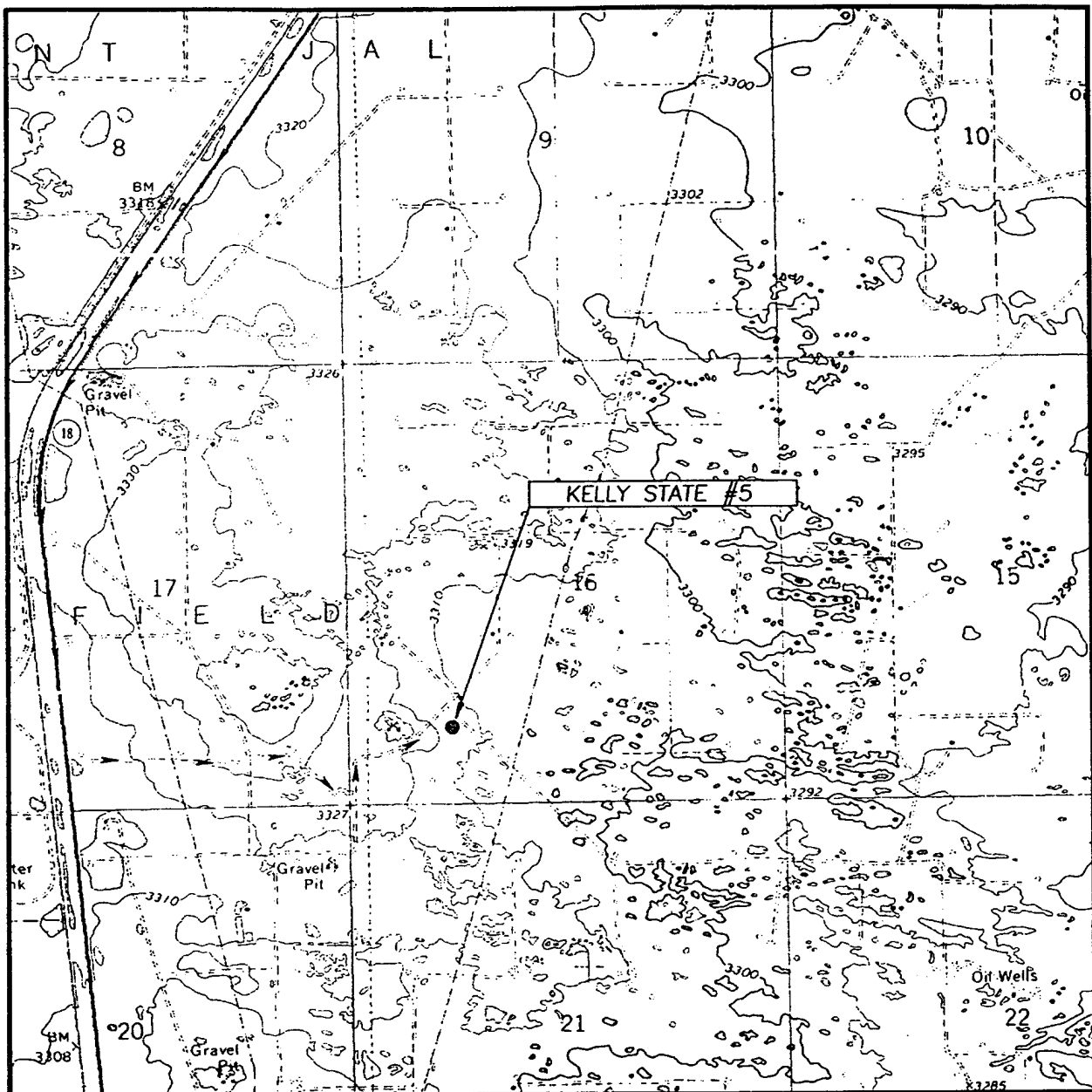
ELEVATION 3315

OPERATOR ARCH PETROLEUM, INC

LEASE KELLY STATE

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'
RATTLESNAKE CANYON, N.M.

SEC. 16 TWP. 23-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 910' FSL & 1230' FWL

ELEVATION 3315'

OPERATOR ARCH PETROLEUM, INC.

LEASE KELLY STATE

U.S.G.S. TOPOGRAPHIC MAP
RATTLESNAKE CANYON, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505) 393-3117

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-144
March 12, 2004

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

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Arch Petroleum Inc. Telephone: 432-685-8100 e-mail address: wrightc@pogoproducing.com
Address: P. O. Box 10340, Midland, TX 79702-7340
Facility or well name: Kelly State #5 API #: 30-025-36981 SW/4 Sec 16 T 23 R 37
County: Lea Latitude 32 17 58.51N Longitude 103 10 19.30W NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

Pit

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume 8400 bbl

Below-grade tank

Volume: _____ bbl Type of fluid: _____

Construction material: _____

Double-walled, with leak detection? Yes ☐ If not, explain why not. _____

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet	(20 points)
50 feet or more, but less than 100 feet <input checked="" type="checkbox"/>	(10 points) 10
100 feet or more	(0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes	(20 points)
No <input checked="" type="checkbox"/>	(0 points) 0

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet	(20 points)
200 feet or more, but less than 1000 feet <input checked="" type="checkbox"/>	(10 points) 0
1000 feet or more	(0 points)

Ranking Score (Total Points)

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location:

onsite ☐ offsite ☐ If offsite, name of facility _____ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

I hereby 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 ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 05/18/04

Printed Name/Title Cathy Wright, Sr Oper Tech Signature *Cathy Wright*

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger 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 regulations.

Approval: DEC 03 2004

Date: _____

Printed Name/Title _____ Signature *[Signature]*

PETROLEUM ENGINEER

Site Map for New Mexico

USGS 321513103101501 23S.37E.33.323241

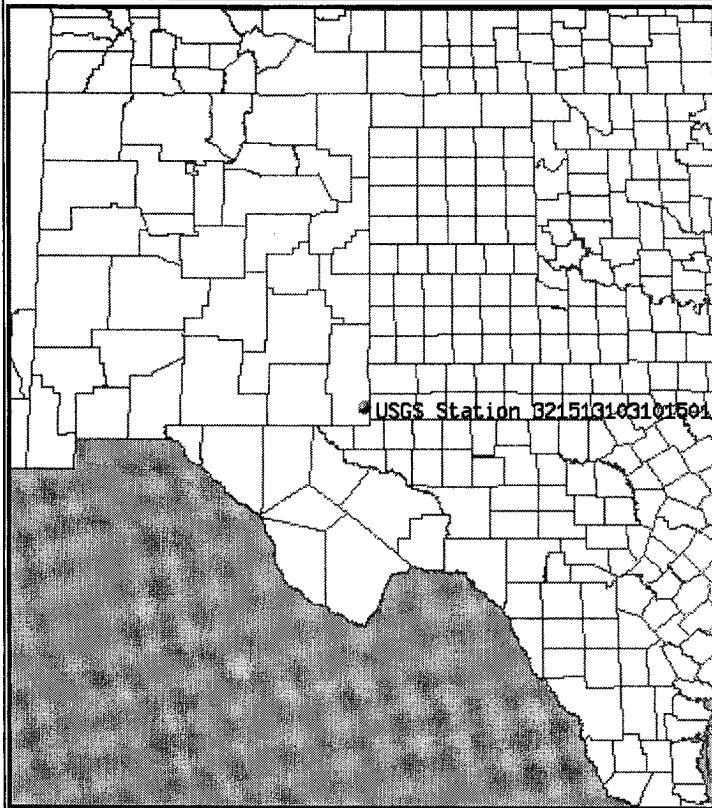
Available data for this site

Station site map

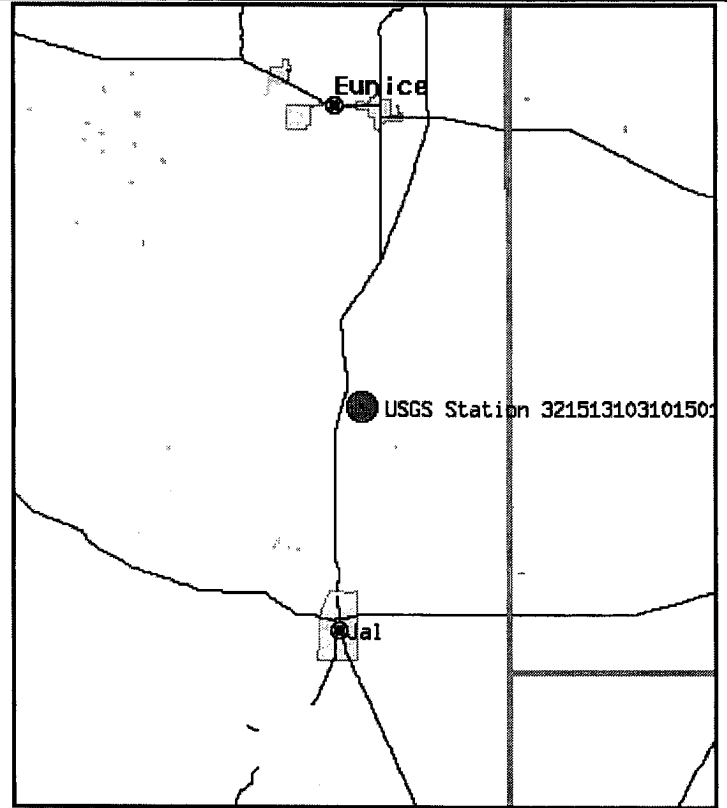
GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°15'13", Longitude 103°10'15" NAD27
Gage datum 3,275.20 feet above sea level NGVD29

Location of the site in New Mexico.



Site map.



ZOOM IN 2X, 4X, 6X, 8X, or ZOOM OUT 2X, 4X, 6X, 8X.

Maps are generated by US Census Bureau TIGER Mapping Service.

Questions about data gs-w-nm_NWISWeb_Data_Inquiries@usgs.gov
Feedback on this website gs-w-nm_NWISWeb_Maintainer@usgs.gov
NWIS Site Inventory for New Mexico: Site Map
<http://waterdata.usgs.gov/nm/nwis/nwismap?>

[Top](#)
[Explanation of terms](#)

Retrieved on 2004-05-18 15:10:18 EDT
Department of the Interior, U.S. Geological Survey
USGS Water Resources of New Mexico
[Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#)

0.66 0.66 nadww01

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

site_no list = • 321513103101501

Save file of selected sites to local disk for future upload

USGS 321513103101501 23S.37E.33.323241

Available data for this site

Ground-water: Levels

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°15'13", Longitude 103°10'15" NAD27

Gage datum 3,275.20 feet above sea level NGVD29

The depth of the well is 140 feet below land surface.

This well is completed in ALLUVIUM,BOLSON DEPOSITS AND OTHER SURFACE DEPOSITS (110AVMB)

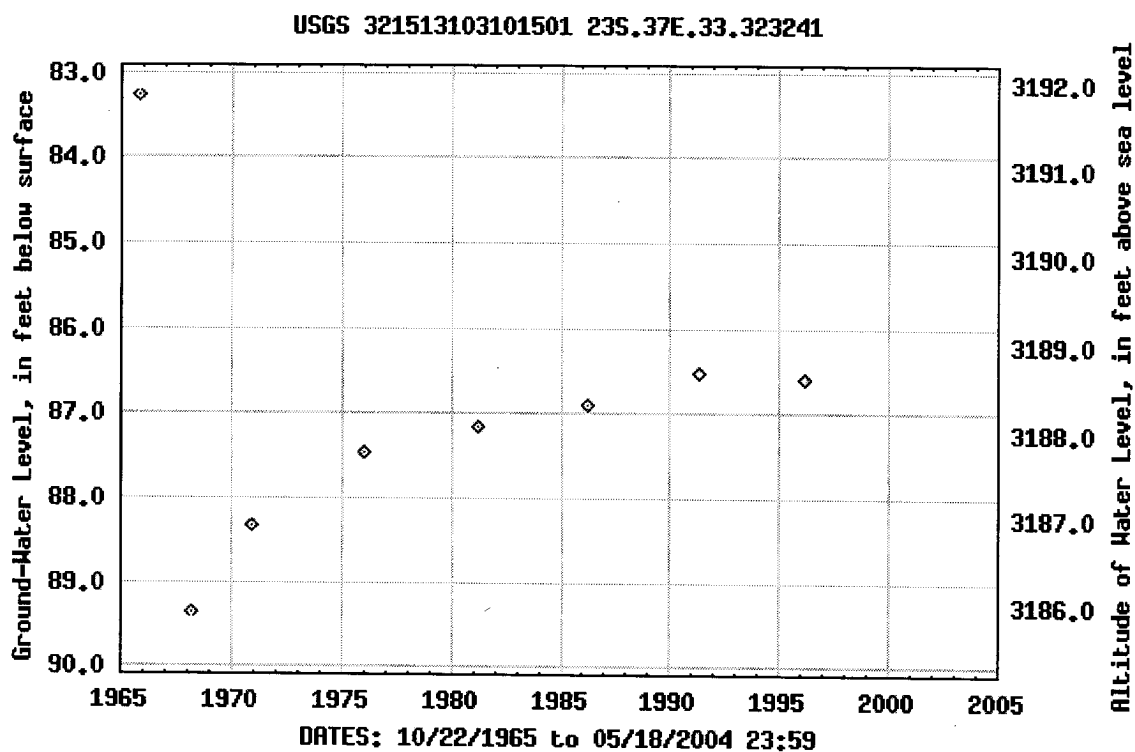
Output formats

Table of data

Tab-separated data

Graph of data

Reselect period



Breaks in the plot represent a gap of at least one calendar year between two consecutive points.

[Download a presentation-quality graph](#)

Questions about data gs-w-nm_NWISWeb_Data_Inquiries@usgs.gov

Feedback on this website gs-w-nm_NWISWeb_Maintainer@usgs.gov

Ground water for New Mexico: Water Levels

<http://waterdata.usgs.gov/nm/nwis/gwlevels?>

[Top](#)
[Explanation of terms](#)



The World Air Sports Federation

Fédération Aéronautique Internationale



WORLD DISTANCE CALCULATOR

Version 1.0 dated 30 October 2001

[Click here to download a version of this page suitable for offline use](#)

(operation instructions available at the end of this page)

Input = Lat/Longs to the same Geodetic Datum, preferably WGS84

Lat 1		Long 1	
<input type="text" value="32:17:58.51"/>	<input type="text" value="N"/>	<input type="text" value="103:10:19.30"/>	<input type="text" value="W"/>
Lat 2		Long 2	
<input type="text" value="32:15:13"/>	<input type="text" value="N"/>	<input type="text" value="103:10:15"/>	<input type="text" value="W"/>

Distance Units:

Earth model:

COMPUTE

RESET

Output = true courses, then shortest distance on the surface of the selected world model

Course 1-2 (deg)	<input type="text" value="178.74133421679713"/>
Course 2-1 (deg)	<input type="text" value="358.74197205863026"/>
Shortest distance	<input type="text" value="3.1773318236904706"/>

FAI Web Site Directions :

Air sports:

Technical Commissions:

Other sections of the Web Site:

events.fai.org

The home of Air Sport Competition Information. The FAI Sporting Calendar and results of all major FAI Championships are available at this address.

Communication Links

Receive automatically [FAI's News releases](#) and other information such as world record notifications. We have a number of mailing lists to which you can freely subscribe.

Our Discussion Board at board.fai.org gives you the opportunity to publicly discuss issues relating to air sports.

OPERATION:

1. For the calculator to operate, Javascript must be enabled. With MS Windows 98 or later and MS Internet Explorer, Javascript is normally enabled by default. For Netscape Navigator, see Options/ Network Preferences/ Languages, for Netscape Communicator see Edit/ Preferences/ Advanced.
2. Read the operating instructions below and the notes at the end. Scroll the display so that all of the boxes are on screen with the Lat/Long boxes at the top and the output boxes towards the bottom of the screen. You are now ready to make calculations.
3. Enter Latitude and Longitude for the points at the beginning and