

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR **MONSANTO COMPANY**

3. ADDRESS OF OPERATOR **101 North Marlenfeld, Midland, Texas 79701**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface **660' FNL & 1980' FNL Section 13**
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO. **RM 048955**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME **ARCO 13**

9. WELL NO. **2**

10. FIELD AND POOL, OR WILDCAT **Willcat**
Desert Flat - Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA **13-31-26**

12. COUNTY OR PARISH **ARTESIA** 13. STATE **N.M.**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* **4 miles north of Carlsbad, New Mexico**

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **660'**

16. NO. OF ACRES IN LEASE **640** 17. NO. ACRES ASSIGNED TO THIS WELL **320**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **None**

19. PROPOSED DEPTH **11,600'**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.) **Will furnish later**

22. APPROX. DATE WORK WILL START* **3/20/74**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48#	600'	750 Sx.
12 1/4"	9 5/8"	47#	3000'	1250 Sx.

Drill 17 1/2" hole to 600'; set 13 3/8" 48# Csg & cement to surface.

Drill 12 1/4" hole to 3000'; Set 9 5/8" Csg 47# & cement to surface.

Drill 8 1/4" hole to 11,600' & log

If production is indicated, set 5 1/2" csg & cement.

Perforate & treat if necessary.

BOP Series 1500 Double Hydraulic w/ Series 900 annular preventer.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED D. W. Wood TITLE District Production Mgr. DATE 3/12/74

(This space for Federal or State office use)

PERMIT NO.

SUBJECT TO ATTACHED DEEP WELL CONTROL REQUIREMENTS DATED JUN 22 1973

DECLARED WATER BASIN

CONDITIONS OF APPROVAL, IF ANY
L. L. BEECHER

TITLE

CEMENT BEHIND THE CASING MUST BE CIRCULATED

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES JUN 18 1974

*See Instructions On Reverse Side

NOTIFY USGS IN SUFFICIENT TIME TO
WITNESS CEMENTING THE 1 3/8" CASING.

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator MONSANTO COMPANY			Lease Arco 13		Well No. 13-2
Unit Letter B	Section 13	Township 21-S	Range 26-E	County EDDY	
Actual Footage Location of Well: 660 feet from the North line and 1980 feet from the East line					
Ground Level Elev. 3278	Producing Formation Morrow		Pool Undesignated	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

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

R. W. Wood

Name

District Production Manager

Position

Monsanto Company

Company

Date

March 12, 1974

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I hereby certify that the location shown on this plat was plotted from notes of **U.S. GEOLOGICAL SURVEY** under my supervision, and that the same is true and correct to the best of my knowledge and belief.

March 11, 1974

Date Surveyed

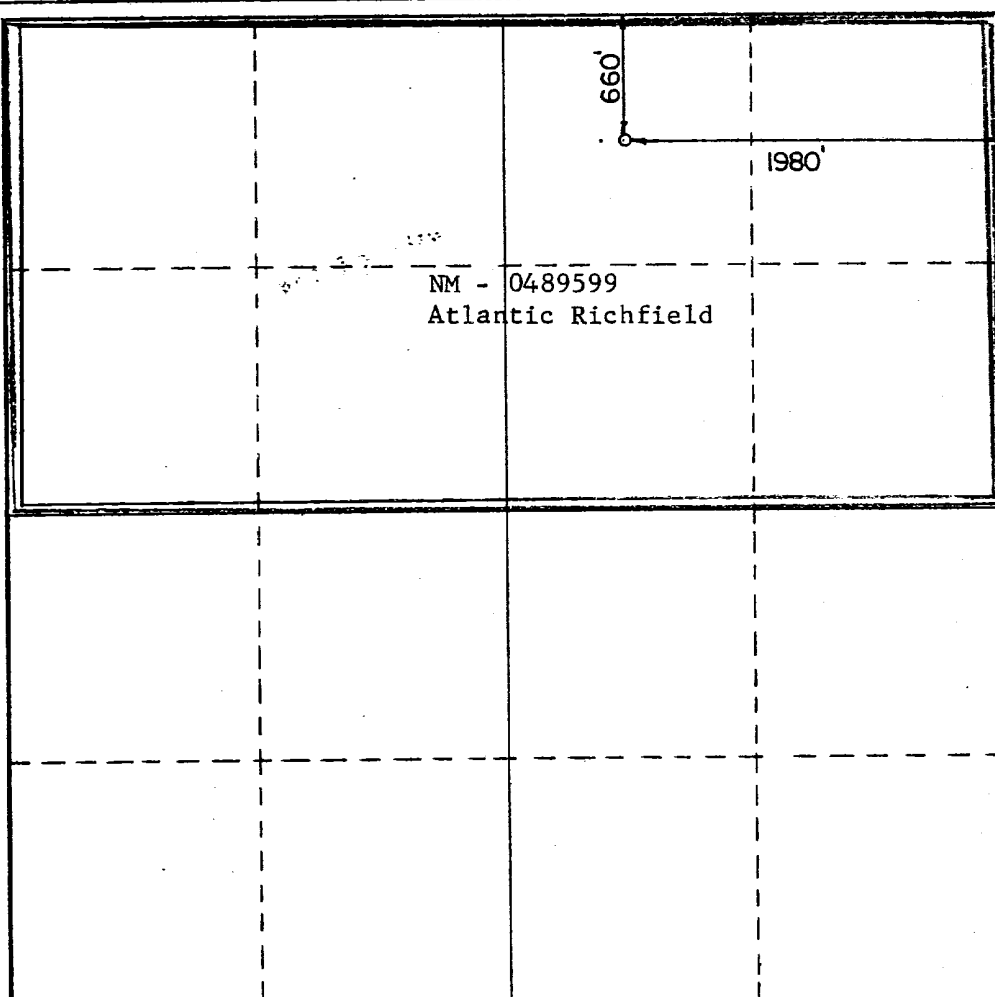
Richard B. Duniven

Registered Professional Engineer and/or Land Surveyor

Richard B. Duniven

Certificate No.

1882



Monsanto

Monsanto Company
317 First Savings & Loan Building
101 North Marienfeld
Midland, Texas 79701
Phone: (915) 683-3306

March 12, 1974

United States Geological Survey
Drawer U
Artesia, New Mexico 88210

Attention: Mr. James Knauf

Re: Arco 13-2
Section 13, T-21-S, R-26-E
Eddy County, New Mexico

Gentlemen:

Monsanto Company respectfully submits the following Development Plan for drilling the above captioned well.

Development Plans include the following:

1. Existing roads: See attachment
2. Planned access roads: See attachment
3. Location of Well: 660 FNL & 1980 FEL
Section 13, T-21-S, R-26-E
4. Lateral Road: See attachment
5. Location of Tank Battery:
If the well is gas productive, a heater and three phase separator will be installed on the southwest corner of the pad with two 200 barrels collection tanks for water and condensate respectively.
Location of pipelines is shown on the attached plat.
6. Location and type of water supply:
Water will be purchased as near as possible and trucked to location.

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MAR 13 1974
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ARTESIA, NEW MEXICO

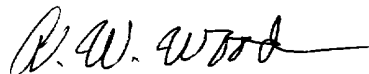
March 12, 1974

7. Method of waste water disposal:
Mud pits as shown on attachment. Waste water
will be trucked to appropriate disposal facilities.
8. Location of camps: None
9. Location of air strips: None
10. Location of rig: See attachment
11. Plans for restoration:
Pits will be leveled and land returned as near as
possible to original condition.
12. Other - Attached mud program and BOP description. After
setting the 9 5/8" casing string and before drilling
into the Wolfcamp formation, the blowout preventers
and related control equipment will be pressure tested
to rated working pressures by an independent service
company. Any equipment failing to test satisfactorily
shall be repaired or replaced.

Monsanto Company respectfully requests that this plan of development
be approved. Please advise if you require any additional information.

Yours very truly,

MONSANTO COMPANY



A. W. Wood

District Production Manager

AWW/EMS/gw
Enclosures

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**U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

ARCO 13-2

MUD PROGRAM

Surface: 0 - 600'
Fresh water gel/lime slurry

Intermediate: 600 - 3000'
Fresh water with L.C.M. for seepage

Production: 3000' - T.D.
Fresh water and lime to 8500'. At
8500' mud up with fresh water low solids
Benex system (Wt. 8.9 to 9.2#/Gal.). At
10,000' increase weight to 9.7#/Gal.
Adjust weight and viscosity as required
to T.D. Reduce water loss to 5 cc before
drilling Morrow.

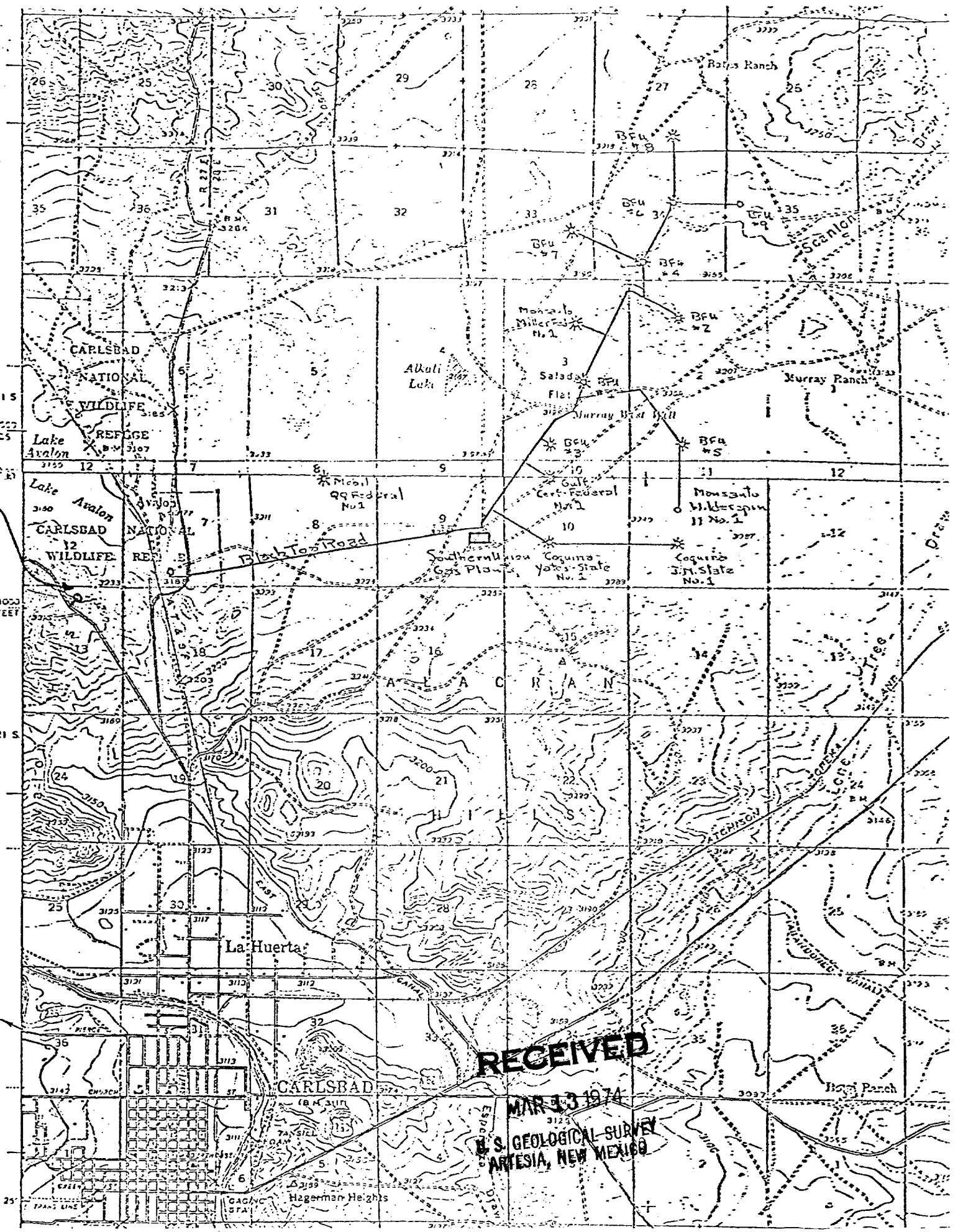
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**U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

Proposed ALLO 13-2

POSWELL LUNC. U.C. 70 320; 75 MI.
ARTESIA 35 MI.



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Manifold Diagram

To Reserve Pit

Manifold
Choke

To Separator

From Potomac Street

To Diesel Scum

Automatic
Choke

To Mud Pit

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Control Valve

Manifold
Casing Pressure
PP Meter
Choke Control

Flow
Line
Sensor

THE BLOWOUT PREVENTER STACK

5000 psi Working Pressure

