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NEW MEXICO OIL CONSERVATION COMMISSION

JAN - 2 1980

O. C. D.

ARTESIA OFFICE

30-015-23116

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
5. State Oil & Gas Lease No. B-11594-3
7. Unit Agreement Name Empire Abo Pressure Maintenance Project
8. Farm or Lease Name Empire Abo Unit "J"
9. Well No. 213
10. Field and Pool, or Wildcat x Empire Abo
12. County Eddy
19. Proposed Depth 6225'
19A. Formation Abo
20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, etc.) 3649.2' GR
21A. Kind & Status Plug. Bond GCA #8
21B. Drilling Contractor Not selected
22. Approx. Date Work will start 2/1/79

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. Type of Work b. Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>
2. Name of Operator ARCO Oil and Gas Company Division of Atlantic Richfield Company	
3. Address of Operator Box 1710, Hobbs, New Mexico 88240	
4. Location of Well UNIT LETTER E LOCATED 2050 FEET FROM THE North LINE AND 100 FEET FROM THE West LINE OF SEC. 6 TWP. 18S RGE. 28E NMPM	
21. Elevations (Show whether DF, RT, etc.) 3649.2' GR	21A. Kind & Status Plug. Bond GCA #8
21B. Drilling Contractor Not selected	22. Approx. Date Work will start 2/1/79

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
	16" OD	75#	30'	15 yds R-M	Circ to surf
12 1/2"	10-3/4" OD	45.5# K-55	1000'	625	Circ to surf
8 1/2"	7" OD	20#, 23# K-55	6140'	1350	Circ to surf

Propose to drill a single 200' horizontal drain hole in order to minimize gas coning by dispersing the pressure drop across the producing interval and improving oil recovery in the following manner: Order No. R-6203, NSL-999.

See Schematic Abo Reef Drainhole drilling plans attached.

Blowout Preventer Program attached.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 4-4-80

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title Dist. Drlg. Supt. Date 12/31/79

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR, DISTRICT II DATE JAN 4 - 1979

CONDITIONS OF APPROVAL, IF ANY:

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

All distances must be from the outer boundaries of the Section

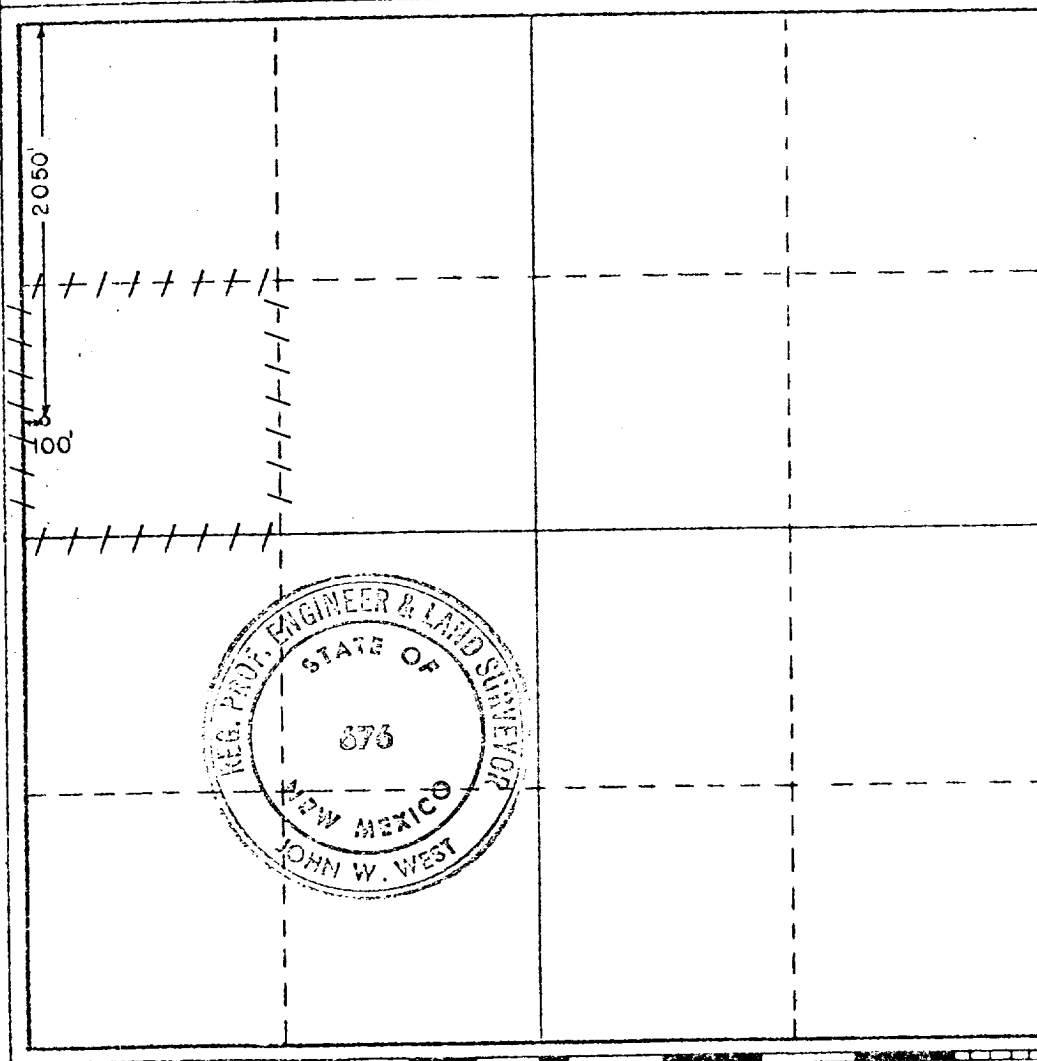
Operator Division of Atlantic Richfield Co. ARCO OIL and GAS Co.			Lease EAU J		Well No. 213
Unit Letter E	Section 6	Township 18 South	Range 28 East	County Eddy	
Actual Footage Location of Well: 2050 feet from the North line and 100 feet from the West line					
Ground Level Elev. 3649.2	Producing Formation Abo		Pool Empire Abo		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or ink and place 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.

Name _____
 Position _____
Dist. Dir. Supt.
ARCO Oil and Gas Company
 Division of Atlantic Richfield Company

Date
12/31/79

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.

Date Surveyed
October 15, 1979
 Registered Professional Engineer
 and/or Land Surveyor

John W. West
 Certificate No. **John W. West**

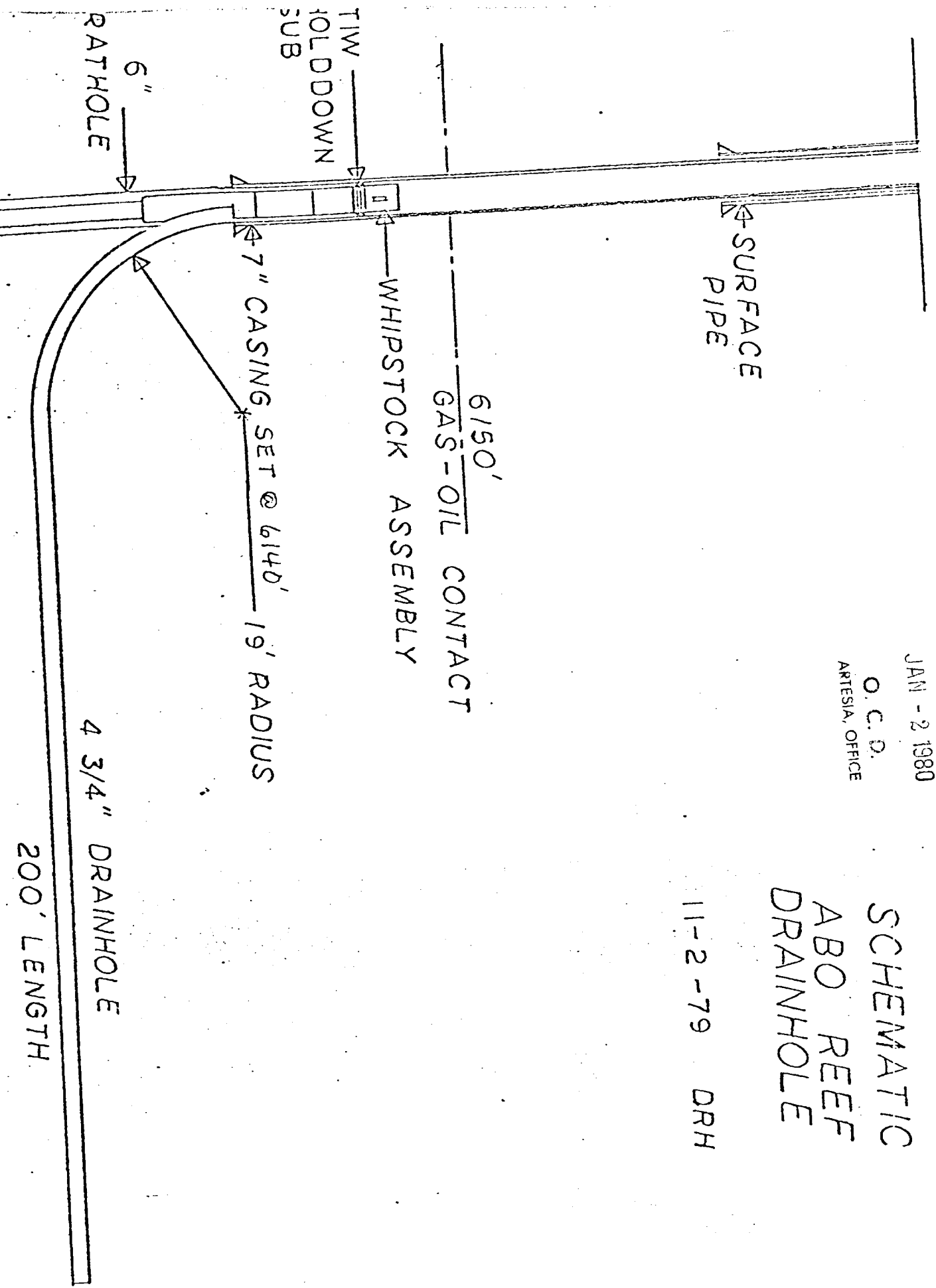
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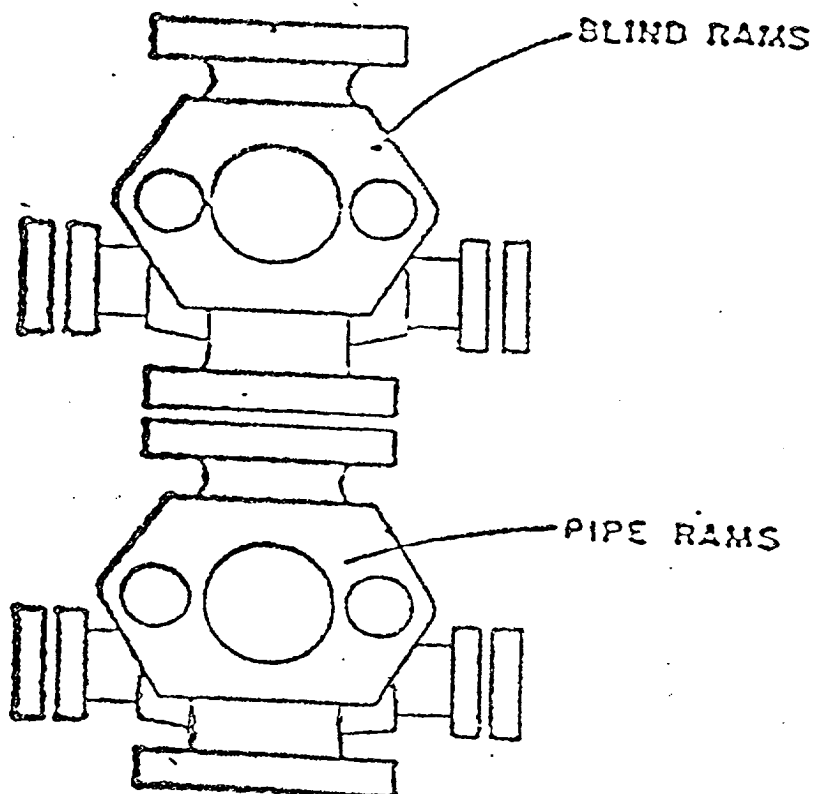
JAN - 2 1980

O. C. D.
ARTESIA, OFFICE

SCHEMATIC
ABO REEF
DRAINHOLE

11-2-79 DRH





ATLANTIC RICHFIELD COMPANY
Blow Out Preventer Program

Lease Name Empire Abo Unit "J"

Well No. 213

Location 2050' FNL & 100' FWL
Sec 6-18S-28E, Eddy County

BOP to be tested before installed on well and will be maintained in good working condition during drilling. All wellhead fittings to be of sufficient pressure to operate in a safe manner.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

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JAN - 2 1980

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

O. C. D.
ARTESIA, OFFICE

CASE NO. 6720
Order No. R-6203

APPLICATION OF ARCO OIL AND GAS
COMPANY TO DRILL A HORIZONTAL
DRAINHOLE, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on November 28, 1979, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 21st day of December, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, ARCO Oil and Gas Company, seeks approval to drill and complete its Empire Abo Unit Well No. J-213 from a surface location which is 2050 feet from the North line and 100 feet from the West line of Section 6, Township 18 South, Range 28 East, Empire-Abo Pool, with a single horizontal drainhole of about 200 feet in length in the Abo formation.

(3) That the applicant proposes to vertically drill said well through the Abo Reef in a conventional manner, set casing below the gas-oil contact, and by means of a specially constructed whipstock and knuckle-joint drill collars, turn said well in a northwesterly direction at the rate of approximately 5 degrees per foot, continuing such drilling until horizontal, and then drill in a northwesterly direction to complete the drainhole within a target area extending 400 feet North and 400 feet West of the kick-off point.

(4) That the applicant should constantly monitor the pitch and direction of the drainhole as it is being drilled, and should file with the Division a final report of drilling upon completion thereof, specifying in said report the depth and location of the terminus of the drainhole.

(5) That the proposed drainhole, if successfully completed as proposed, should make possible the production of an increased volume of oil from the subject well without coning of gas into the wellbore, thereby preventing waste, will not impair but will protect correlative rights, and should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, ARCO Oil and Gas Company, is hereby authorized to complete its Empire Abo Unit Well No. J-213, the surface location of which is 2050 feet from the North line and 100 feet from the West line of Section 6, Township 18 South, Range 28 East, NMPM, Empire-Abo Pool, Eddy County, New Mexico, in such a manner as to provide a 200-foot horizontal drainhole beneath the gas-oil contact in the Abo Reef, extending in a northwesterly direction and confined within a target area extending 400 feet North and 400 feet West of the surface location.

(2) That the applicant shall constantly monitor the pitch and direction of the drainhole as it is being drilled, and shall file a report of drilling upon completion thereof, specifying in said report the depth and location of the terminus of the drainhole.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary. DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
JOE D. RAMEY
Director

S E A L
Ed/