

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-031-20840

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

Bird Oil Corporation

3. ADDRESS OF OPERATOR

717 Seventeenth St., Suite 2860, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2310' FSL & 1650' FWL (NE SW)

At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

13 miles Southeast of Star Lake Compressor Station

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1650'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

950'

16. NO. OF ACRES IN LEASE

320

19. PROPOSED DEPTH

2200'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6564' GR

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START*

April 1, 1983

23.

PROPOSED CASING AND CEMENTING PROGRAM

This action is subject to administrative
appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10 3/4"	8 5/8"	24# J-55	90'	10 sxs Class C
7 7/8"	4 1/2"	9.5# J-55	2200'	200 sxs Class C w/2% CaCl

1. Drill 10 3/4" hole and set 8 5/8" surface casing to 90' w/cement to surface
 2. W.O.C. - Test surface casing w/mud pump
 3. Drill 7 7/8" hole to approximately 2200' using gel and water
 4. Plan to use mud logging unit during drilling. Run DST as warranted and logs at T.D. as warranted.
 5. Set 4 1/2" and cement to surface if warranted.
 6. Run logs, perforate, and stimulate as needed.
- Estimated tops: Surface Formation--Lewis Shale
Chacra--572'
Cliff House--1078'
Menefee--1132'
Point Lookout--2053'

Estimated Depth of Anticipated Oil or Gas: 1950'
See attached diagram for pressure control equipment

Duration of Operations: 10 days

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 prevention program, if any.

24.

SIGNED

James K. Folk

TITLE

Control Mgr - Ref

DATE

2-23-83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

DATE

MAR 15 1983

JAMES F. SIMS

DISTRICT ENGINEER

BIA0000

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Operator BIRD OIL CORPORATION		Lease BIRD-FEDERAL 12		Well No. 11
Unit Letter K	Section 12	Township 19N	Range 5W	County McKinley
Actual Footage Location of Well: 2310 feet from the South line and 1650 feet from the West line				
Ground Level Elev: 6564	Producing Formation Merapie (mv)	Pool Widener Under	Dedicated Acreage: 40 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.

Sec.		RECEIVED FEB-25 1983 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.	
1650'	2310'	RECEIVED MAR 16 1983 OIL CON. DIV. DIST. 3	

CERTIFICATION

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

James K. Folk
Name
James K. Folk
Position
Operators Representative
Company
Bird Oil Corporation
Date
February 24, 1983

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
February 21, 1983
Registered Professional Engineer
and Land Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.
Certificate No. **4822**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR
Bird Oil Corp. c/o Bayless Drilling
3. ADDRESS OF OPERATOR
P.O. Box 2669, Farmington, NM 87499
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2310' FSL & 1650' FWL
AT TOP PROD. INTERVAL: same
AT TOTAL DEPTH: same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:
TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

RECEIVED
MAR 10 1983

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
NM 17184
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Bird Federal
9. WELL NO.
12-11
10. FIELD OR WILDCAT NAME
Wildcat-Mesaverde
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 12, T19N, R5W
12. COUNTY OR PARISH
McKinley
13. STATE
New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TO CHANGE OPERATOR'S REPRESENTATIVE

RECEIVED
MAR 16 1983
OIL CON. DIV.
DIST. 3

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED John H. McLeod TITLE Agent

DATE 3-10-83

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED
AS AMENDED

MAR 15 1983
James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions on Reverse Side

MOCC

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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WELL ☒GAS
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ZONE ☐MULTIPLE
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2. NAME OF OPERATOR

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At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

13 miles Southeast of Star Lake Compressor Station, McKinley, N. M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1650'

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2200'

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TO THIS WELL

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20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DP, RT, GR, or other) DRILLING OPERATIONS AUTHORIZED ARE
6564' GR SUBJECT TO COMPLIANCE WITH ATTACHED

22. APPROX. DATE WORK WILL START*

April 1, 1983

23. "GENERAL DESCRIPTION OF PROPOSED CASING AND CEMENTING PROGRAM"

This action is subject to administrative
appeal pursuant to 30 CFR 290.

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
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24.

SIGNED

James K. Fulk

TITLE

Cond. Eval. Rep.

DATE

2-23-83

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

*ok*APPROVED
AS AMENDEDMAR 15 1983
James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER

NM000

5. LEASE DESIGNATION AND SERIAL NO.

NM-17184

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Bird Federal 1/2

9. WELL NO.

11

10. FIELD AND POOL, OR WILDCAT

Wildcat Mesaverde

11. SEC. T. R. M. OR BLK.
AND SURVEY OR AREA

Sec. 12, T19N, R5W

12. COUNTY OR PARISH

McKinley

13. STATE

New Mexico

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

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

Operator BIRD OIL CORPORATION			Lease BIRD-FEDERAL		Well No. 12-11
Unit Letter K	Section 12	Township 19N	Range 5W	County McKinley	
Actual Footage Location of Well: 2310 feet from the South line and 1650 feet from the West line					
Ground Level Elev. 6564	Producing Formation Morafee (MV)		Pool Wildcat	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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RECEIVED
MAR 16 1983
OIL CON. DIV.]
DIST. 3

RECEIVED
FEB 25 1983
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

Sec.

1650'

12

2310'

CERTIFICATION

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

Name

James K. Folk

Position

Operators Representative

Company

Bird Oil Corporation

Date

February 24, 1983

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

February 21, 1983

Registered Professional Engineer
and Land Surveyor

Fred B. Kerr Jr.

February 22, 1983

Minerals Management Service
Drawer 600
Farmington, New Mexico 87401

Re: Thirteen point Development
Plan for Surface Use

Gentlemen:

The following thirteen point development plan for surface use is submitted in connection with the application to drill and test a well in Section 12, Township 19 North, Range 5 West N.M.P.M. in McKinley County, New Mexico.

1. Existing Roads

The existing road from 44 Store Trading Post to Star Lake Compressor Station will be used. The location is approximately 13 miles SE of the Star Lake Compressor Station. We have submitted as a part of the application to drill a plat showing all roads and drainages in the area.

2. Planned Access Roads

Plan approximately 200' of flat bladed road 12' wide to location pad. This road will be improved if production is established for hauling purposes. The location of this planned access road can be seen on the plat of Vicinity Map submitted with the application to drill.

3. Location of Existing Wells

The location of the proposed well in relation to the other wells in the area is delineated on the plat of Location of Existing Wells submitted with the application to drill.

4. Location of Tank Batteries and Flowlines

Will be initially located on location pad approximately 100 feet from well if production is encountered.

5. Water Supply

Water will be hauled to location from Papers Wash.

6. Source of Construction Materials

Not applicable

7. Method of Handling Waste Disposal

Trash will be picked up and put in trash pit and burned, then covered at least 2 feet below ground level. All other waste will be buried in the reserve pit on completion of the well. The reserve pit will be backfilled and levelled. Toilet facilities will be provided. Drilling fluids will also be buried when dry; produced oil will be put in storage tanks and produced water, if any, will eventually be put back in the ground.

8. Ancillary Facilities

No airstrips or camps, temporary or permanent, will be used.

9. Diagram of Well Location

The location and layout is shown on a plat submitted with application to drill. The location will not be compacted except to the extent that compaction accrues with normal traffic and use.

10. Plans for Restoration to Surface

The surface will be restored and reseeded as directed by the Bureau of Land Management. In the event the drilling operation is successful, the top soil at the ends of the cutting and waste pit will be used again in covering the pits and this area reseeded.

11. Other Information

Impact on the environment will be minimal. The access road and well location is sparsely vegetated and minimal disturbance will be required. There will be no cuts or fills because the area is level.

12. Operators Representative

Mr. James K. 'Ken' Folk, Route 1, Box 41, Aztec, New Mexico 87410
Phone: 505-334-2396

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Bird Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

2-23-83
Date

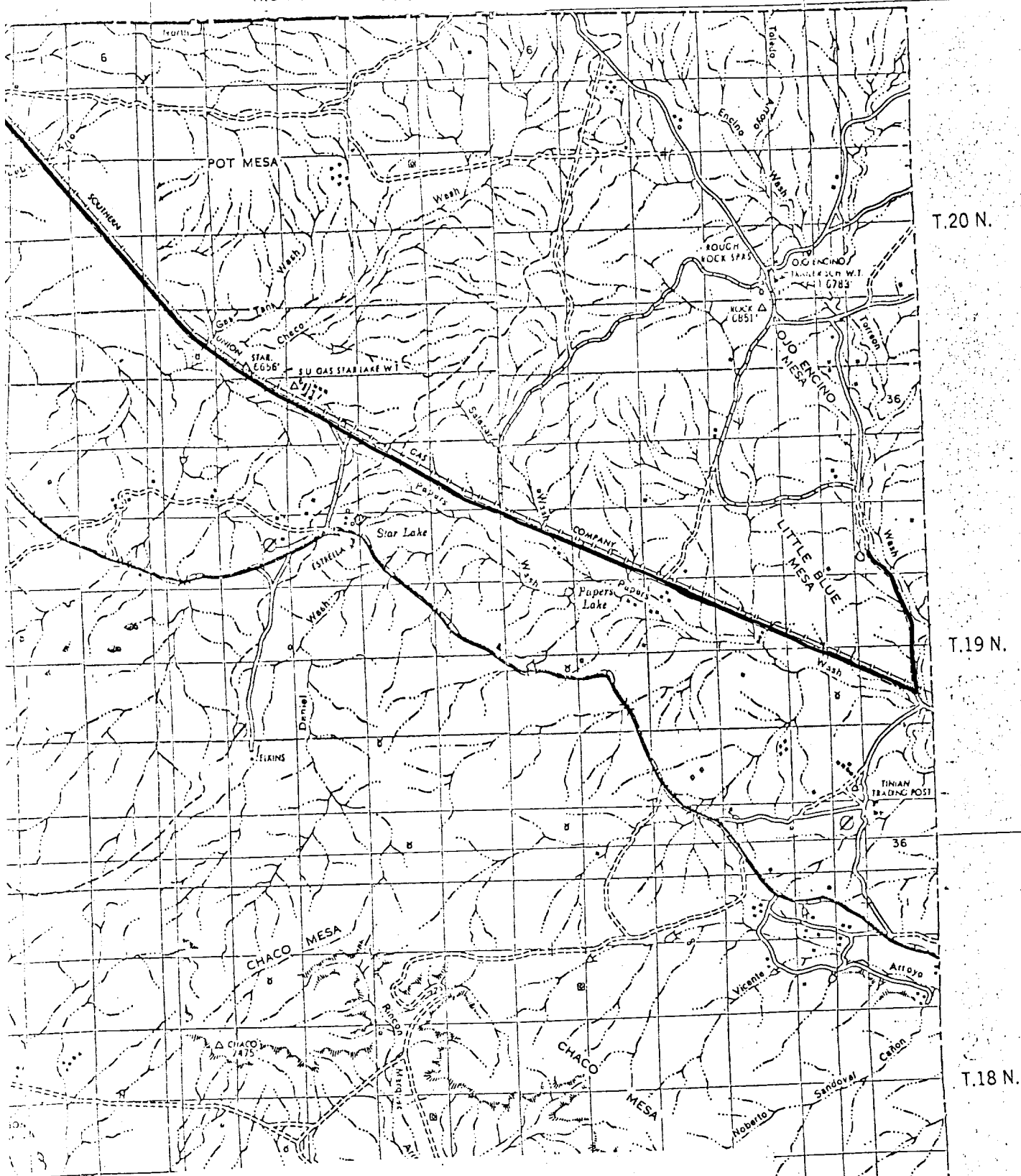
James K. Folk
Name

Consul. Geol. - Representative
Title

R.6 W.

EXISTING ROADS

R.5 W.

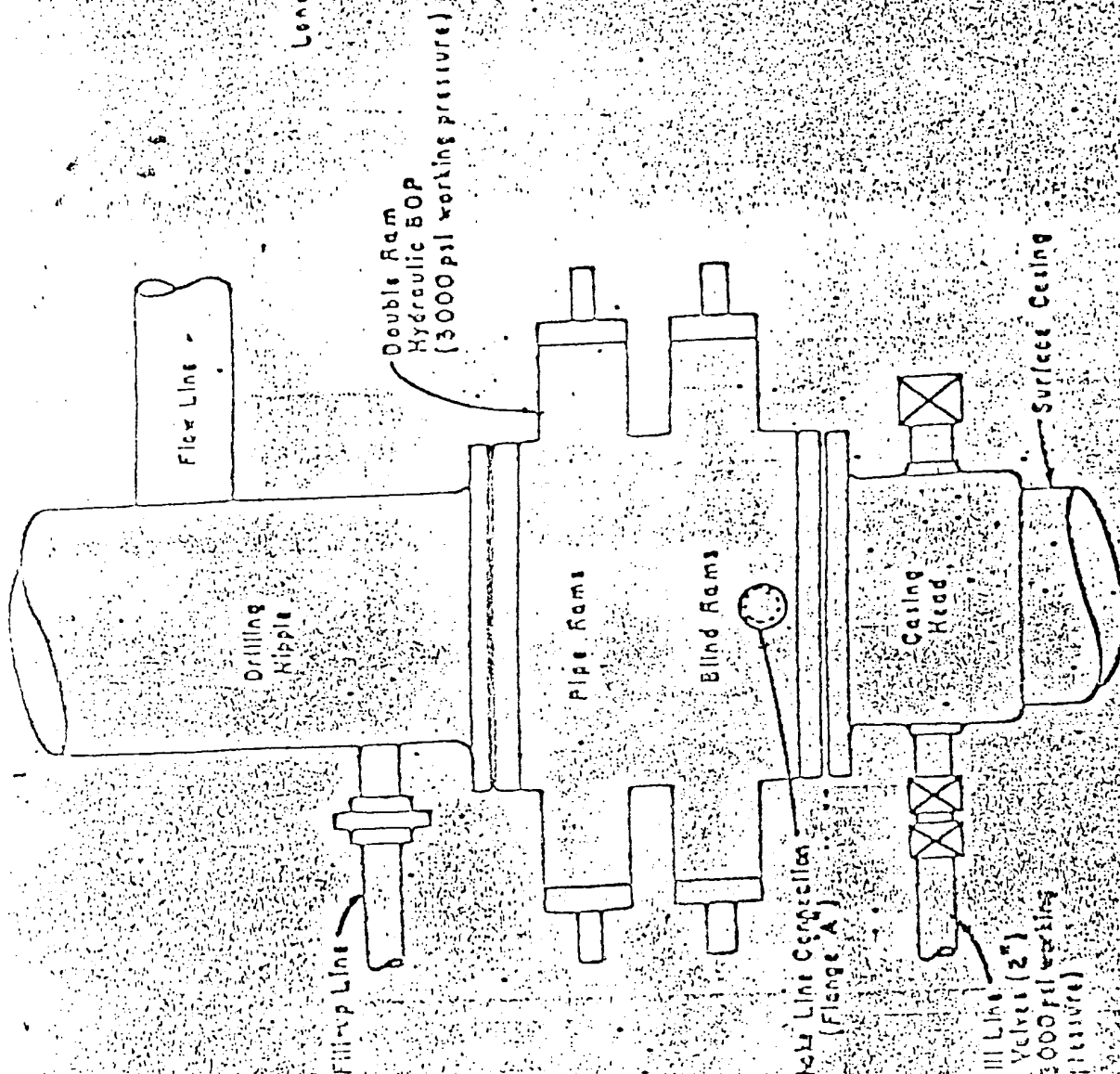
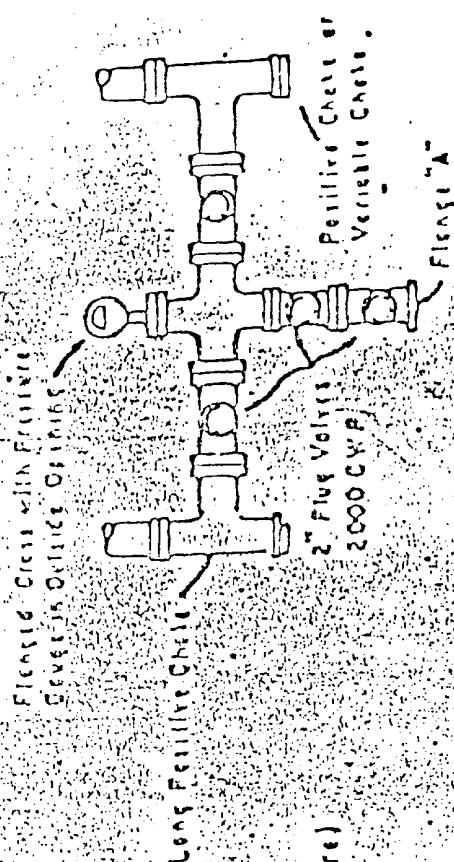


Drive down Star Lake Road from 44 Store to Star Lake Plant.
Continue down Star Lake Rd. about 16 miles. Turn north
(left) and continue approximately 2.4 miles to well
location.

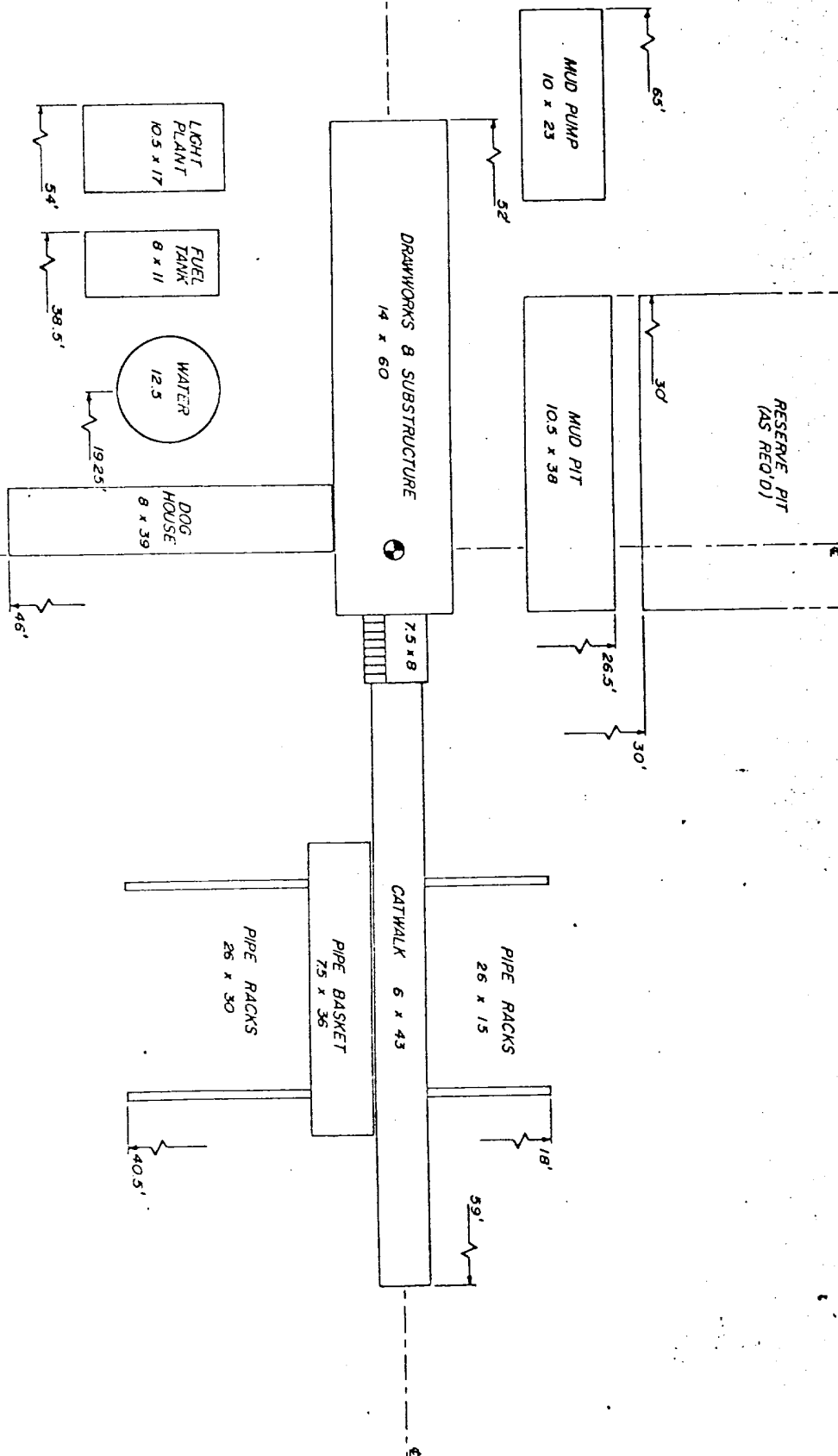
Blowout Preventer Diagram

Bird Oil Corporation
 Bayless Rig #2
 Bird Federal #12-11
 2310' FSL & 1650' FWL
 Sec. 12, T19N, R5W
 McKinley County, New Mexico

PLAN VIEW - CHOKE MANIFOLD



Bird Oil Corporation
 Bird Federal 12-11
 2310' FSL & 1650' FWL
 Sec. 12, T19N, R5W
 McKinley County, New Mexico



1) GROUND LEVEL TO BOTTOM OF ROTARY
 BEAM : 75 ft.
 2) GROUND LEVEL TO TOP OF KELLY
 BUSHING : 10 ft.

RECOMMENDED LOCATION SIZE : 180 ft x 100 ft.
 FROM CENTER OF HOLE TO : RESERVE PIT : 30 ft.
 LOCATION EDGE : 70 ft.
 FRONT : 100 ft.
 BACK : 80 ft.



RIG NO 2

RIG #2

CAPACITY	4500 ft. with 3½" Drill Pipe.
DRAWWORKS	Challenger M-280, double drum with ¾" drilling line on each drum. Trip drum has 21" single Parmac hydromatic.
RIG POWER	GMC 12V-71N rated at 465 HP, driving through Allison 5860 transmission.
MUD PUMPS	#1: Omega D-750 (6½" x 8") triplex pump rated at 750 HP, powered by GMC 16V-71T rated at 750 HP. #2: Gardner-Denver FD-FXD 5" x 10" rated at 100 HP, powered by rig compound.
DERRICK	Challenger 62 ft. rated at 125,000 lbs. hook load.
SUBSTRUCTURE	Challenger 10 ft., 100 ton substructure with 8 ft. to bottom of rotary beams. Floor dimensions are 14' x 12'.
ROTARY TABLE	Howard-Turner 18" rotary table with split master bushings and 44" centers.
BLOCK HOOK	McKissick 60 ton on each drum.
SWIVEL	Gray Model "F" swivel rated at 100 tons.
MUD TANK	250 bbl. capacity tank, divided into 4 compartments, complete with mud guns, hopper, walkways and stairs.
SHALE SHAKER	Linkbelt Model 145 48" x 60" shaker with 5 HP explosion-proof motor.
BOP EQUIPMENT	Garland Machinery 11", 3000 PSI annular type preventer. Closing Unit actuated by rig hydraulics.
LIGHT PLANT	GMC 4-71T, 100 KW generator. All lighting is vapor-proof with flourescent and mercury-vapor lights.
FUEL TANK	One (1) round 3000 gallon fuel tank.
WATER TANK	One (1) round 450 bbl. water tank.
DRILL PIPE	4500 ft. of 3½", 13.30#, Grade E with 3½" IF Connections.
DRILL COLLARS	Eighteen (18) 4¾" x 2¼" x 31' with 3½" IF Connections.

