

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. NM 25450	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Hixon Development Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 2810, Farmington, New Mexico 87401			8. FARM OR LEASE NAME South Carson Federal 23	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface K 2310' FSL, 2160' FWL, Section 23, T25N, R12W At proposed prod. zone			9. WELL NO. 11- <del>2</del>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 24 miles south of Farmington			10. FIELD AND POOL, OR WILDCAT Bisti Lower Gallup <del>x</del> f	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 330'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 23 Section 23, 25N, 12W	
16. NO. OF ACRES IN LEASE 240			12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 80			13. STATE NM	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 4990'			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6402' GLE			22. APPROX. DATE WORK WILL START* 3-1-80	

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	220'	200 sacks
7-7/8"	4-1/2"	10.5#	4990'	300 sacks

It is proposed to drill a Bisti Lower Gallup Pool stepout well. The well will offset the Carson Lower Gallup Unit. It will be evaluated with a mud log unit, open hole logs and DST's if necessary. Treating facilities for this well will be located in Section 22, T25N, R12W.

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 [Signature] TITLE Petroleum Engineer DATE 12-10-79  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

ok Erik

\*See Instructions On Reverse Side

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.

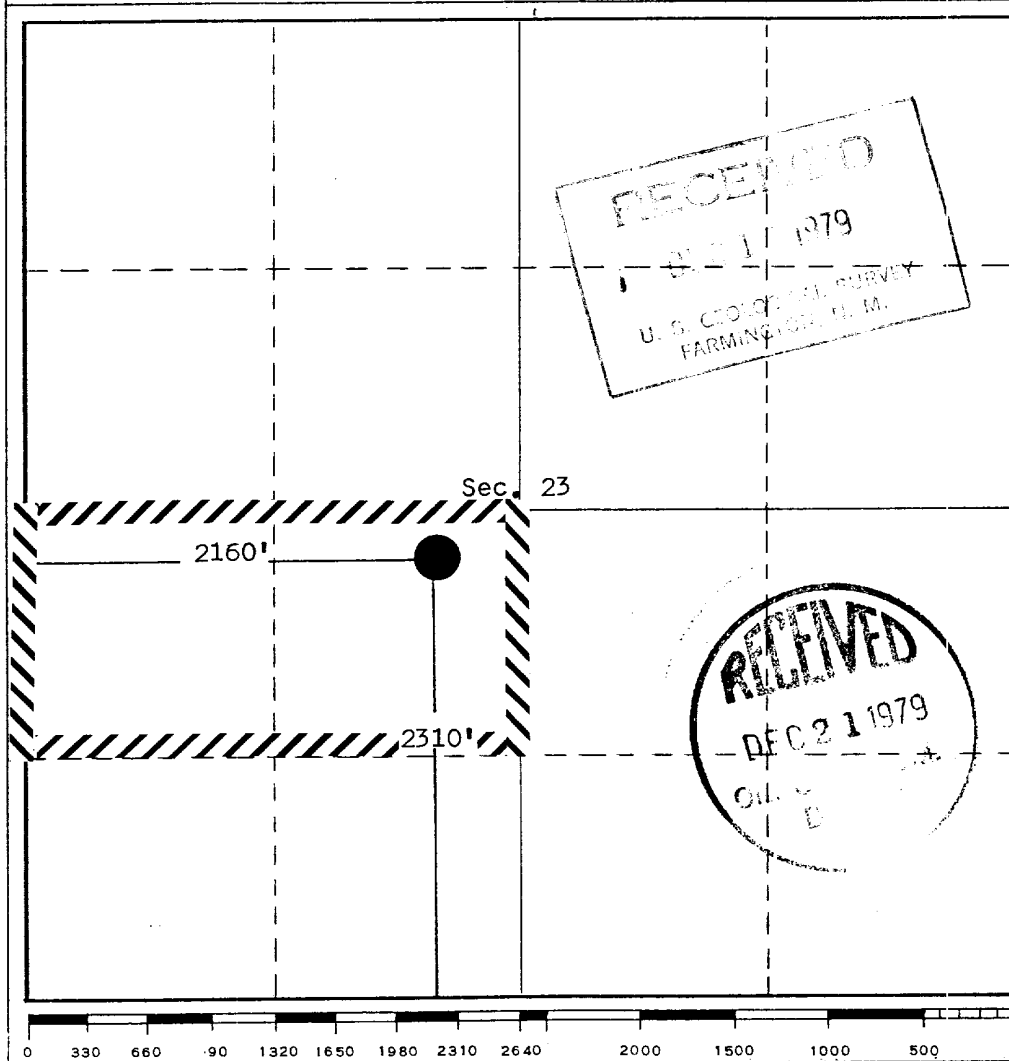
Operator <b>Hixon Development Company</b>			Lease <b>South Carson Federal 23</b>		Well No. <b>11-<del>11</del></b>
Unit Letter <b>K</b>	Section <b>23</b>	Township <b>25 North</b>	Range <b>12 West</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>2310</b> feet from the <b>South</b> line and <b>2160</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6402</b>	Producing Formation <b>Lower Gallup</b>		Pool <b>Bisti Lower Gallup ext</b>		Dedicated Acreage: <b>80</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 one-owner lease

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.

*Aldrich L. Kuchera*  
Name

Aldrich L. Kuchera

Position

Petroleum Engineer

Company

Hixon Development Co.

Date

12-6-79

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

November 28, 1979

Registered Professional Engineer  
and/or Land Surveyor

*Edgar L. Risenhoover*  
Certificate No. 5979

Edgar L. Risenhoover, L.S.

APPLICATION FOR PERMIT TO DRILL  
HIXON DEVELOPMENT COMPANY  
SOUTH CARSON FEDERAL WELL NO. 11-23  
2310' FSL, 2160' FWL, SECTION 23, T25N, R12W  
SAN JUAN COUNTY, NEW MEXICO

NTL-6 13 Point Requirement Outline is as follows:

1. Existing Roads - Refer to the attached topographic map.  
The well will be located along side an existing dirt road.  
The location is adjacent to the Shell Oil Company operated Carson Lower Gallup Unit. Existing well location roads in the vicinity of the South Carson Federal 11-23 are maintained by company construction vehicles.
2. Planned Access Roads - Refer to the attached maps.
3. Location of Existing Wells - A 1-mile radius map showing offset wells is attached.
4. Location of Existing and/or Proposed Facilities - The proposed well location is situated inside a developed oil and gas field containing an extensive system of oil and gas gathering lines, water injection lines, disposal lines, powerlines, fuel gas lines etc. The well's production will be piped to an existing tank battery in Section 22, T25N, R12W.
5. Location and Type of Water Supply - Water for drilling will be obtained from the NIIP.
6. Source of Construction Materials - Materials for the drilling pad will be obtained from the proposed well location, i. e. none will be hauled in.
7. Methods for Handling Waste Disposal - Any waste material incurred while drilling will be buried in the mud pits, i. e. 5' deep. Cuttings, drilling fluid, well circulation and stimulation fluids (if any) will be contained in the mud pits. The mud pits will be allowed to dehydrate and will be filled and contoured per regulations. Well site will be properly cleaned up after rigging down rotary tools.
8. Ancillary Facilities - Central Bisti Lower Gallup Unit existing facilities will be used.
9. Well Site Layout - Refer to attached plat.

10. Plans for Restoration of Surface - The mud pits will be back filled, area leveled and contoured, raked and waste materials disposed of by burying 5' deep. Revegetation will not be carried out because seeding efforts in this area have been unsuccessful and a waste of money due to lack of moisture and blow sand conditions.
11. Other Information - Refer to Archeological Report to be submitted.
12. Operator's Representative -  
  
Aldrich L. Kuchera  
Hixon Development Company  
Petroleum Center Building  
501 Airport Drive  
Suite 101  
Farmington, New Mexico 87401  
  
Office (505) 325 - 6984  
Home (505) 325 - 3448  
Car (505) 325 - 1873 - Unit 675
13. Certification - See Attached.

APPLICATION FOR PERMIT TO DRILL  
HIXON DEVELOPMENT COMPANY  
SOUTH CARSON FEDERAL WELL NO. 11-23  
2310' FSL, 2160' FWL, SECTION 23, T25N, R12W  
SAN JUAN COUNTY, NEW MEXICO

Other NTL-6 Pertinent Data is as follows:

1. Estimated Log Tops:

Animas	Surface
Ojo Alamo	120'
Pictured Cliffs	1191'
Lewis	1346'
Point Lookout	3596'
Mancos	3806'
Gallup	4706'
Lower Gallup	4781'

2. Estimated depths of water oil and gas:

Fresh water	30' - 150'
Gas	1191' - 1346'
Oil	4781' - 4990'

3. Weight and Type of Mud to be Used -

Surface - 0-220'; drill with spud mud. Spud mud will be an Aquagel/lime slurry mixed to a 40-50 sec/gt viscosity.

Production Hole - A Dextrid/Cellex low solids mud or equivalent will be used. Any hardness will be treated with soda ash. Mud weight and drilled solids will be controlled. Mud properties will be as follows:

Mud Weight - 8.4 - 8.8 #/gal  
Viscosity - 34 - 45 sec/quart  
Plastic Viscosity - 4 - 8 cps  
Yield Value - 3 - 6 #/100 sq. ft.  
Fluid Loss - 8 - 12 cc's/API  
pH - 8.3 - 8.5  
Solids Content - 5-1/2% maximum  
Annular Velocity - 120 FPM

4. Open hole logs to be used:

Induction Electric

Compensated Neutron - Density

5. Pressure control equipment will be a 10" Shaffer 3000 WP hydraulic BOP stack per the attached inventory sheet. Surface casing will be tested to 750 psi for 30 minutes prior drilling out cement. Production casing will be tested to 1000 psi for 30 minutes prior perforating.
6. On the basis of offset drilling data we do not foresee any drilling hazards such as high pressure gas zones, high temperatures, sour gas or other abnormal deviations.
7. Surface 8-5/8" 24# J-55 ST&C and production 4-1/2" 10.5# J-55 ST&C casing will be new and tested at the factory. Regular Class B cement will be used for the surface casing. Production casing will be cemented with Class B cement and 2% CaCl.
8. Duration of drilling activity from spud date to completion is expected to be about 15 days.
9. In the event that the well is a dry hole it will be plugged with prior USGS approval and the drilling site restored to its natural state.

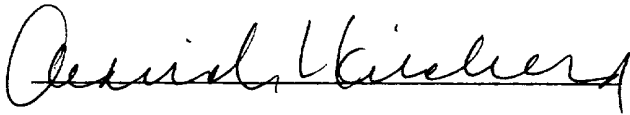
HIXON DEVELOPMENT COMPANY

P. O. BOX 2810

FARMINGTON, NEW MEXICO 87401

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 Hixon Development Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.



Aldrich L. Kuchera  
Petroleum Engineer

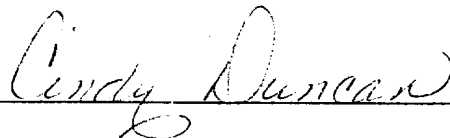
11-30-79

Date

Subscribed and Sworn to before me this 30th day of November, 1979.

7-25-83

My Commission Expires



Notary Public - Cindy Duncan



OFFICIAL SEAL

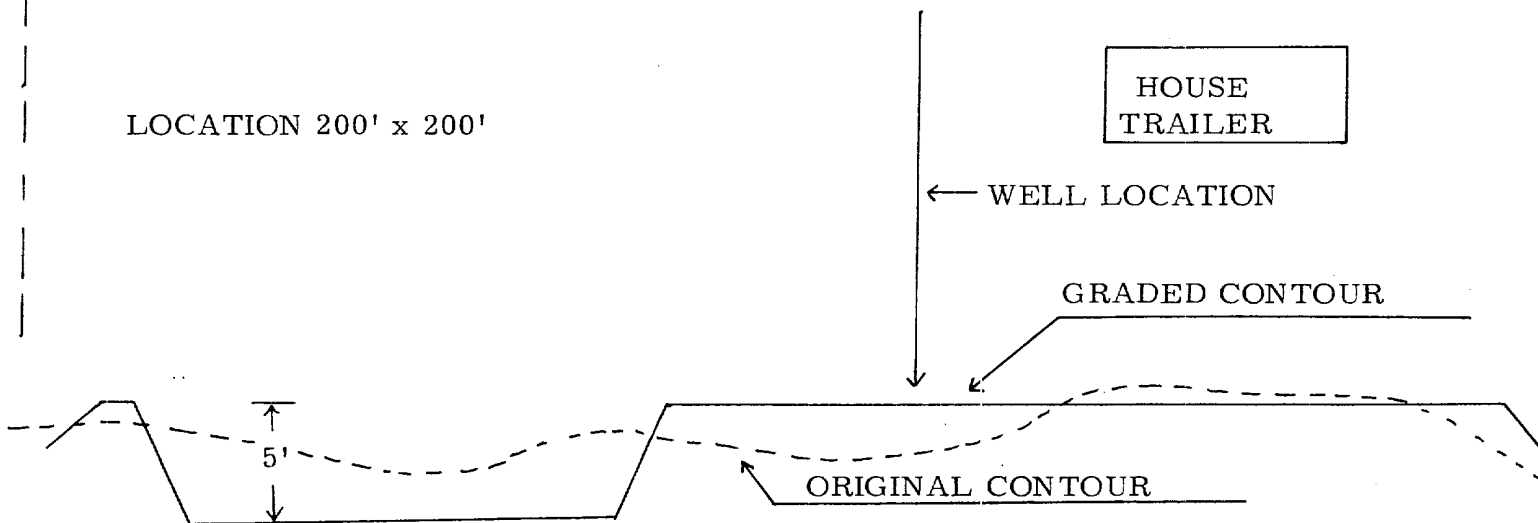
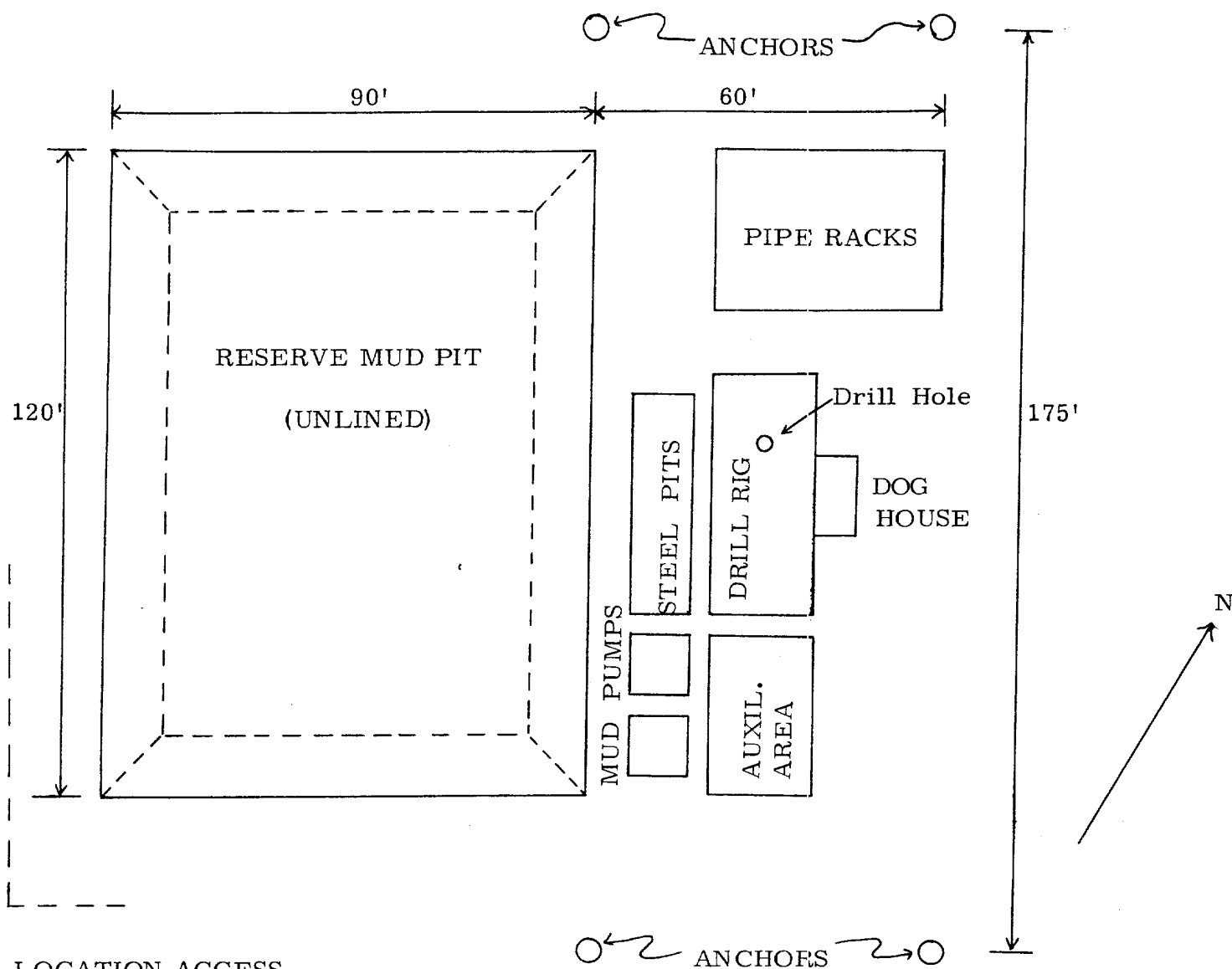
CINDY DUNCAN

NOTARY PUBLIC - NEW MEXICO

Notar. Com. Filed with Secretary of State

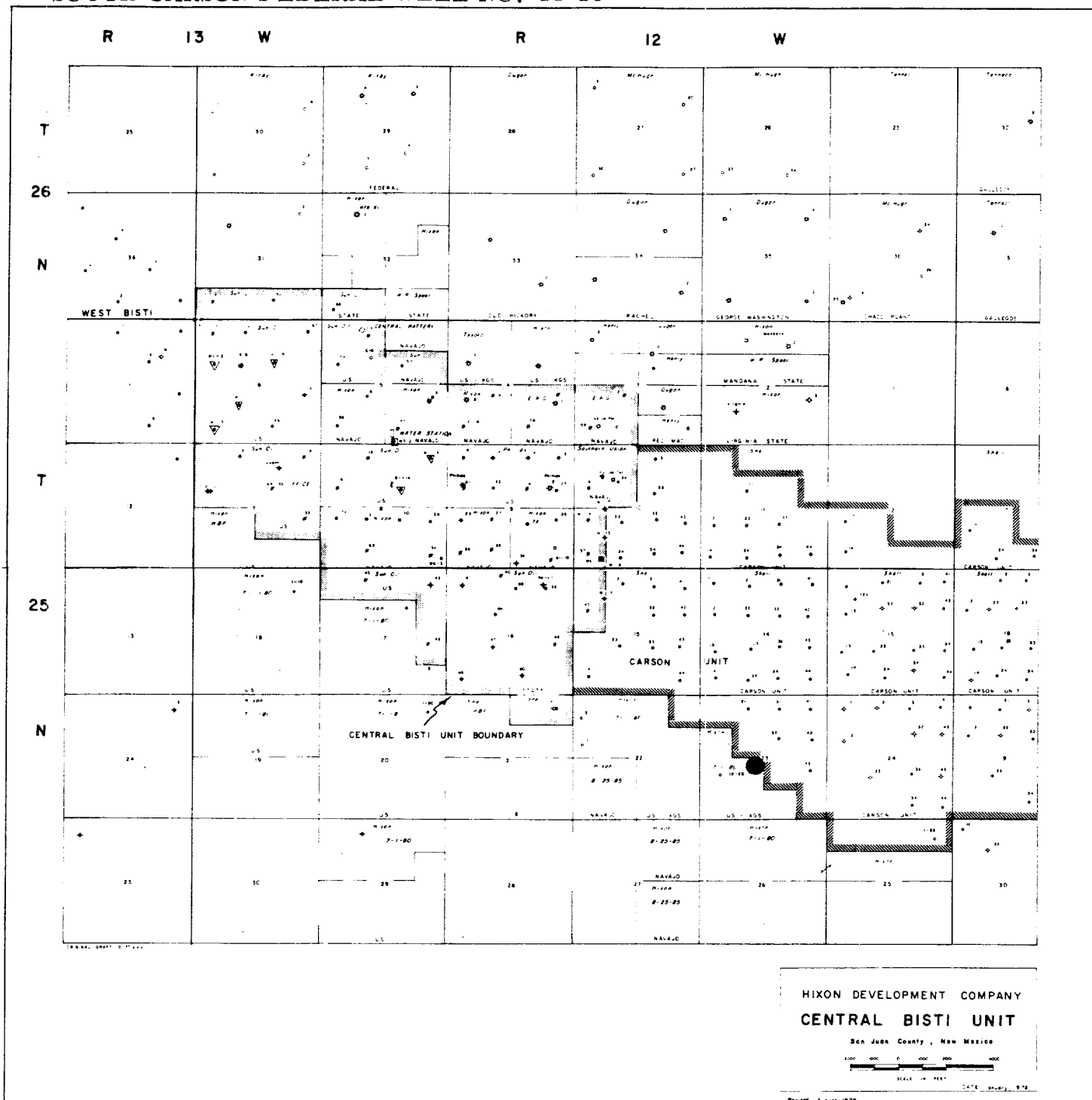
My Commission Expires: 7-25-83

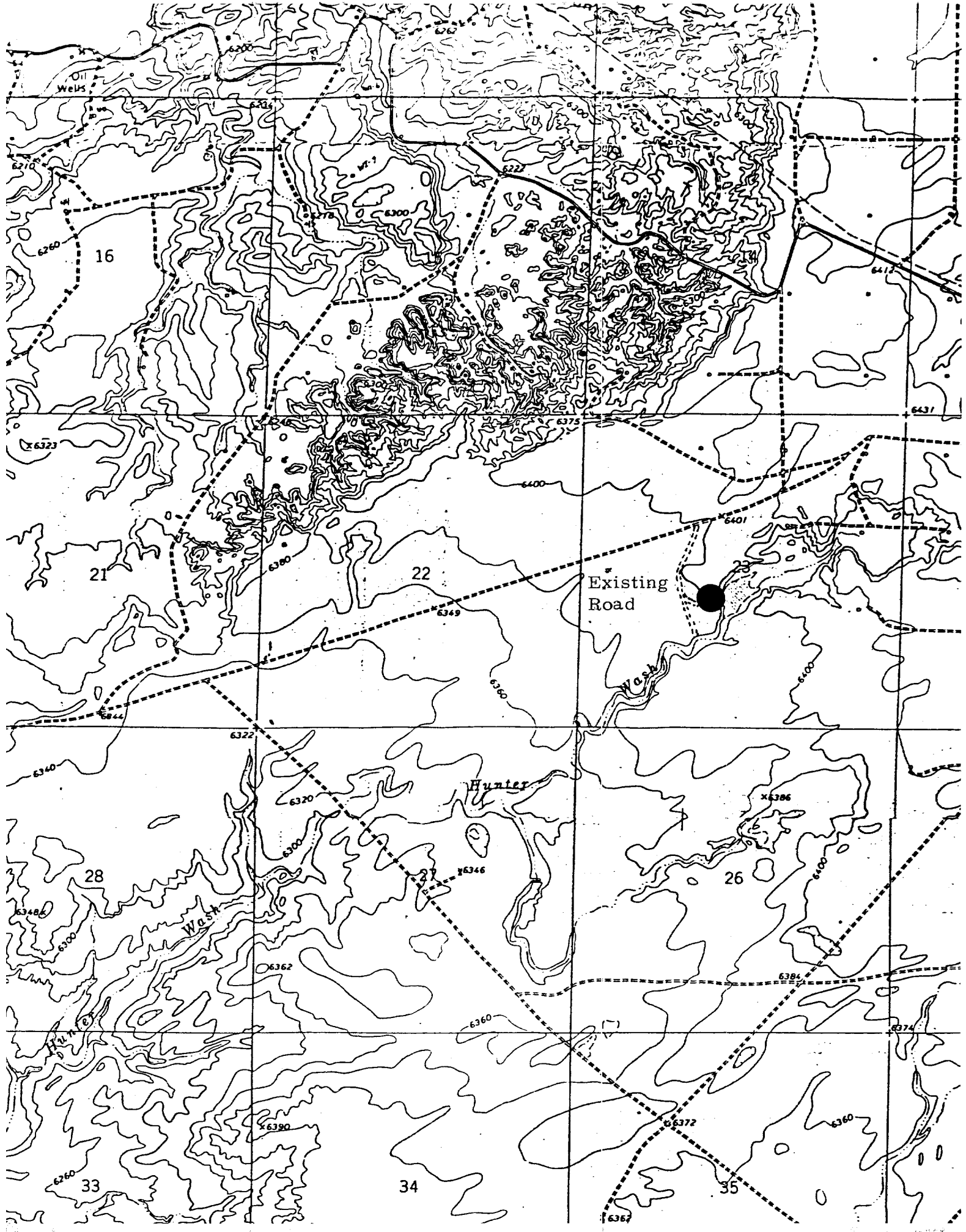
HIXON DEVELOPMENT COMPANY  
DRILLING LOCATION PLAT AND RIG LAYOUT  
SOUTH CARSON FEDERAL WELL NO. 11-23

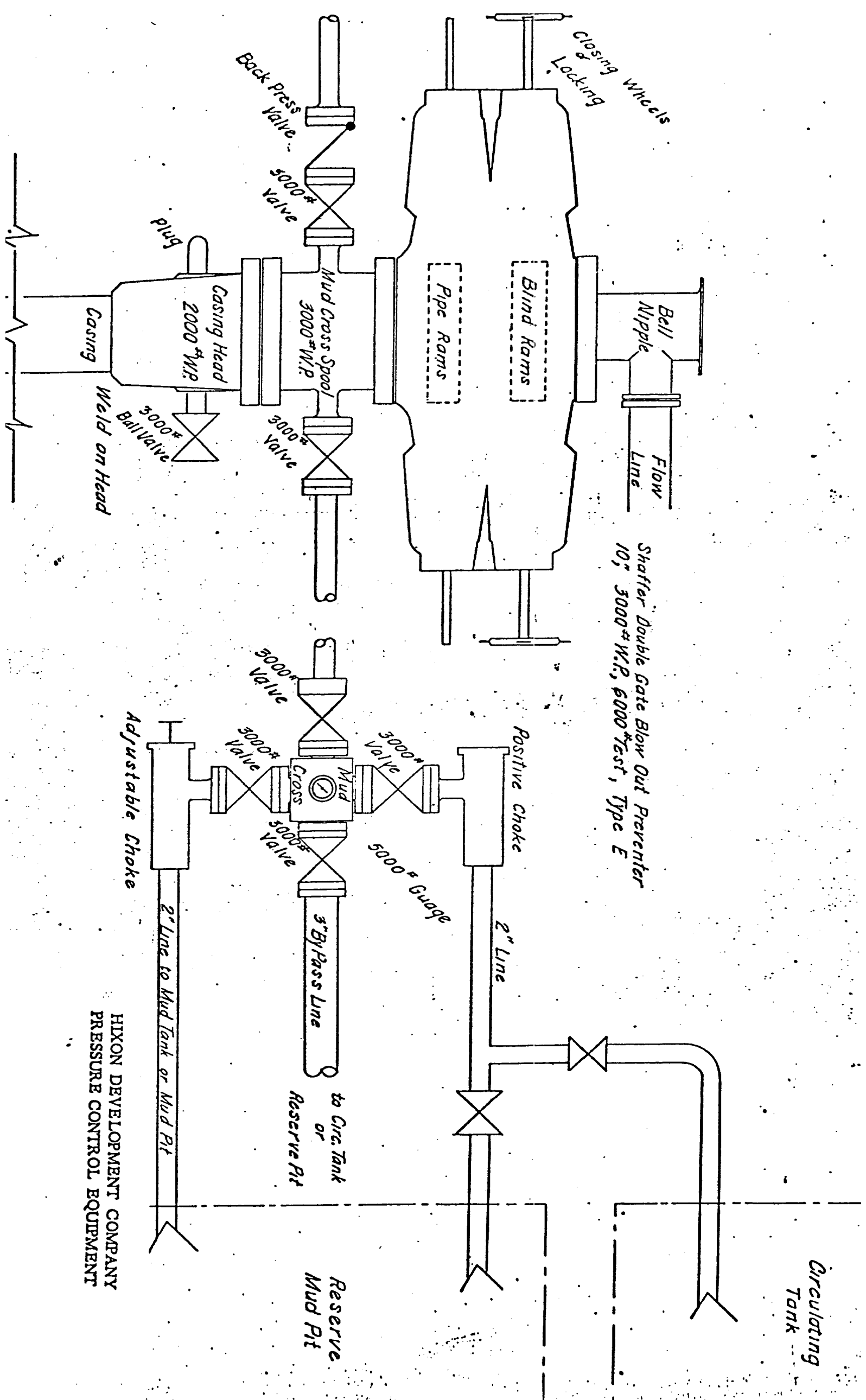




# SOUTH CARSON FEDERAL WELL NO. 11-23







HIXON DEVELOPMENT COMPANY  
 PRESSURE CONTROL EQUIPMENT