SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on

| UNITED STATES DEPARTMENT OF THE INTERIOR | | | | | |
|--|--|--|--|--|--|
| GEOLOGICAL SURVEY | | | | | |

| DEPARTMENT OF THE INTERIOR | | | | | | | $\frac{30 - 045 - 23}{5. \text{ LEASE DESIGNATION AND SE}}$ | 3457 BIAL NO. |
|---|--|---------------------------|---------------|---------------|---------------|--------------------------------------|--|------------------|
| GEOLOGICAL SURVEY | | | | | | | SF 078316-E | |
| APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK | | | | | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | | |
| 1a. TYPE OF WORK DRI b. TYPE OF WELL | ILL 🖺 | DEEPEN | | PL | .UG BA | ′CK □ | 7. UNIT AGREEMENT NAME | |
| OIL G | AS OTHER | | | NGLE X | MULTI ZONE | PLE | 8. FARM OR LEASE NAME | |
| 2. NAME OF OPERATOR | | | | | 2011 | | Walker Com | *** |
| El Paso Nat | tural Gas Co | ompany | | | | | 9. WELL NO. | |
| 3. ADDRESS OF OPERATOR | | | | | | | 4 | - |
| | , Farmington | | | | | | 10. FIELD AND POOL, OR WILDO | |
| 4. LOCATION OF WELL (R At surface | | | th any S | tate requirem | ents.*) | | Blanco Pic.Cli | ffs |
| 1450'S, 1450'E At proposed prod. zone | | | | | | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32, T-31-N, NMPM | R-9-W |
| 14. DISTANCE IN MILES | AND DIRECTION FROM N | | ST OFFICE | • | | | 12. COUNTY OR PARISH 13. ST | TATE |
| | ortheast of | Aztec, NM | | | | | San Juan NM | |
| 15. DISTANCE FROM PROPO LOCATION TO NEAREST | r | | 16. NO | OF ACRES II | LEASE | | F ACRES ASSIGNED | |
| PROPERTY OR LEASE I | .ine, ft. g. unit line, if any) | 1450' | | 37 | 2.5 | 10 11 | 159 | .83 |
| 18. DISTANCE FROM PROP TO NEAREST WELL, D | RILLING, COMPLETED. | | 19. PR | POSED DEPTH | | | Y OR CABLE TOOLS | |
| OR APPLIED FOR, ON THE | IS LEASE, FT. | 500 ' | | 32 | 50 ' | Rotar | У | |
| 21. ELEVATIONS (Show who | ether DF, RT, GR, etc.) | | | • | | | 22. APPROX. DATE WORK WILI | , START* |
| 23. | | PROPOSED CASI | NG AND | CEMENTIN | G PROGR | AM | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER F | TOO | SETTING | DEPTH | | QUANTITY OF CEMENT | |
| 12 1/4" | 8 5/8" | 24.0# | | 1 | 20' | 106 c | u.ft.circ. to s | urface |
| 6 3/4" | 2 7/8" | 6.4# | | 32 | 50 ' | | u.ft.to cover 0 | |
| | - | | | | | | | |
| l | ļ | 1 | i | | | 1 | | |
| | | | | | | | | |
| | | | | | | | ured Cliffs for | mation. |
| A 3000 psi blind and p | WP and 6000 pipe rams wi |) psi test 111 be used | doub d for | le gat | o pre | venter revent: | equipped with ion on this welf | 1. |
| This gas is | dedicated. | | | | 50 5 1878 | | | |
| The SE/4 of | Section 32 |) is dedica | 5a+e | the this | NO 1 | 」/ >^ | A Paris | • |
| IN ABOVE SPACE DESCRIBE zone. If proposal is to | PROPOSED PROGRAM: I drill or deepen direction | f proposal is to deep | pen or pl | ug back, give | data on p | resent produ nd measured | ctive zone and proposed new prand true vertical depths. Give | roductive |
| preventer program, if any 24. | 7. | | | | | : | 650 | |
| SIGNED . | J. Duses | TI | rlk | Dr | illin | g Clerl | k DATE April | 3 <u>, 1</u> 979 |
| (This space for Feder | ral or State office use) | | | | | | | |
| PERMIT NO. | | | | APPROVAL DAT | E | | | |
| | | | | | | | and the second second second second | |

oh Frank

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY __

nmoce

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 14-65

All distances must be from the outer boundaries of the Section. Operator Well No. EL PASO NATURAL GAS COMPANY (SF-078316-E) WALKER COM Unit Letter Section Range County 31N 9W SAN JUAN Actual Footage Location of Well: 1450 feet from the South 1450 line and East Ground Level Elev. Producing Formation Dedicated Acreage: 6322 Blanco Pictured Cliffs Pictured Cliffs 159.82 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? 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. NOTE: THIS PLAT IS REISSUED TO SHOW MOVED LOCATION. 3-28-79 CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. الصت ريري Drilling Clerk Position El Paso Natural Gas Co. Company April 3, 1979 Sec. 32 I hereby certify that the well location shown on this plat was plotted from field SF-078316-E NM-E-1641-4 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

1000



P. O. BOX 990 FARMINGTON, NEW MEXICO 87401

PHONE: 505-325-2841

Multi-Point Surface Use Plan

Walker Com #4

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map.

 All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Map No. 2.
- 4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines Please refer to Maps No. 1 and No. 2.

 Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from Pump Wash Water Hole #1.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,

7. cont'd.

will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to the attached Plat No. 1.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.
- 11. Other Information The terrain is rolling hills with pinon, cedar and sagebrush growing. Deer and cattle graze the proposed project site.
- 12. Operator's Representative W.D. Dawson, PO Box 990, Farmington, NM
- 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 El Paso Natural Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

L. A. Aimes

Project Drilling Engineer

Operations Plan - Walker Com #4

I. Location: 1450'S, 1450'E, Section 32, T-31-N, R-9-W, San Juan County, NM

Field: Blanco Pictured Cliffs Elevation: 6332'GL

II. Geology:

A. Surface Formation: San Jose

Sub-surface Formation Tops:

| Ojo Alamo | 1782' | Pictured Cliffs | 3102 ' |
|-----------|-------|-----------------|---------------|
| Kirtland | 1946' | Lewis | 3205 ' |
| Fruitland | 2756' | Total Depth | 3250' |

- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none

III. Drilling:

A. Anticipated Starting Date and Duration of the Project:

1979 Drilling Program - approximately 4 days to complete.

B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.

IV. Materials:

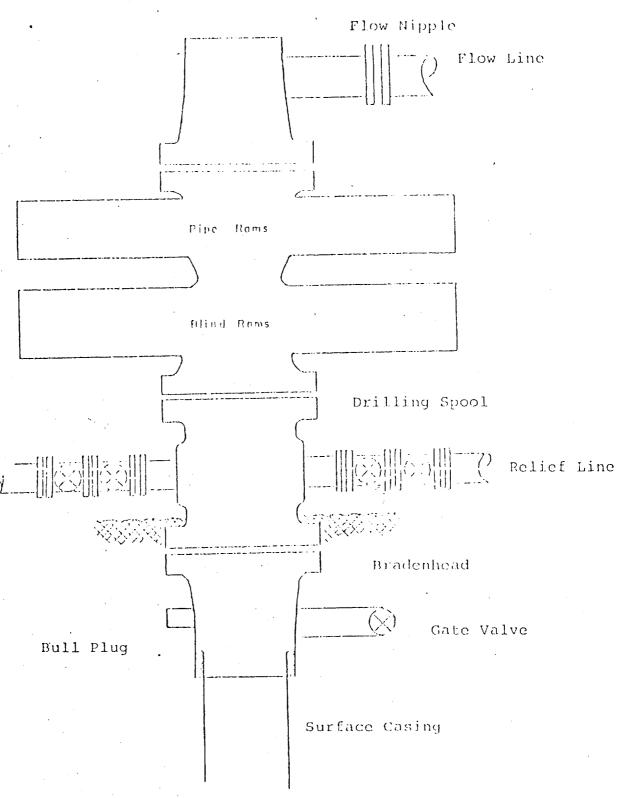
| A. Casin | Casing Program: | Hole Size | Depth | Csg.Size | Wt.&Grade | |
|----------|-----------------|-----------|---------------|----------|------------|--|
| | | 12 1/4" | 120' | 8 5/8" | 24.0# J-55 | |
| | | 6 3/4" | 3250 ' | 2 7/8" | 6.4# J-55 | |

- B. Float Equipment: 8 5/8" surface casing cement guide shoe.
 - 2 7/8" production casing 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.
- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)

V. Cementing:

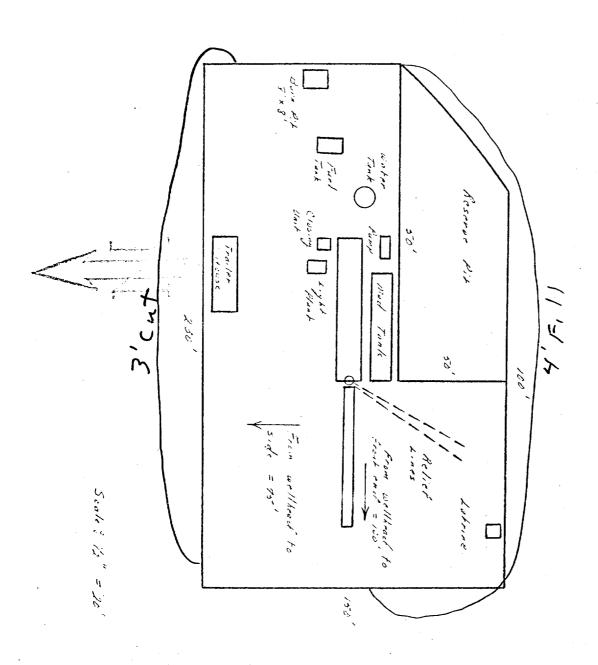
- 8 5/8" surface casing 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/30 minutes.
- 2 7/8" production 225 sks. 65/35 Class "B" Poz with 6% gel, 2% CaCl₂, and 8.3 gallons water per sack followed by 70 sks.Class "B" neat cement (447 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.

Typical Mud Drifted B.O.P. Installation for Pictured Cliffs Well



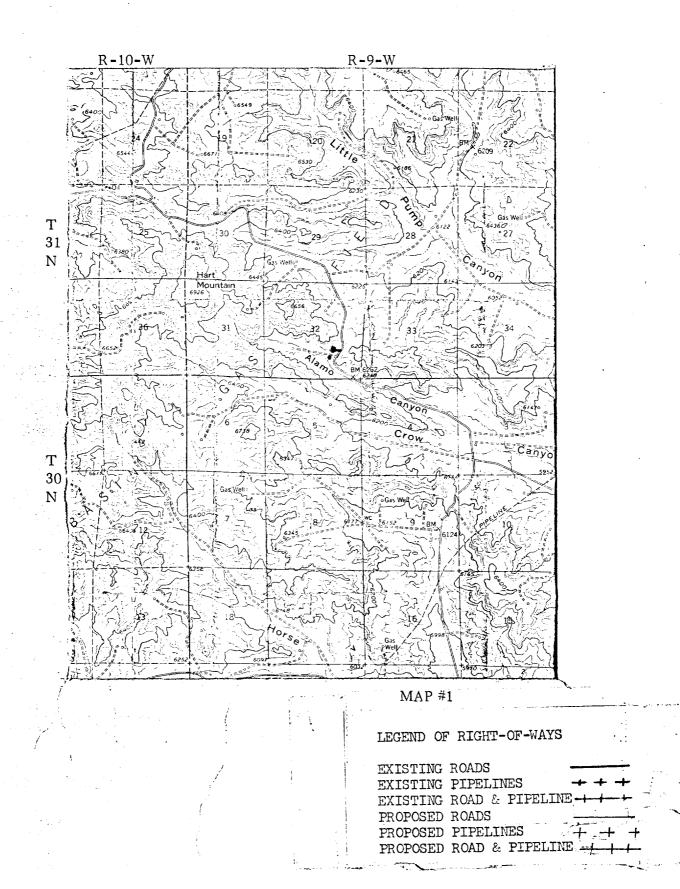
8" Series 900 Double Gate BOP, rated at 3000 psi Working Pressure

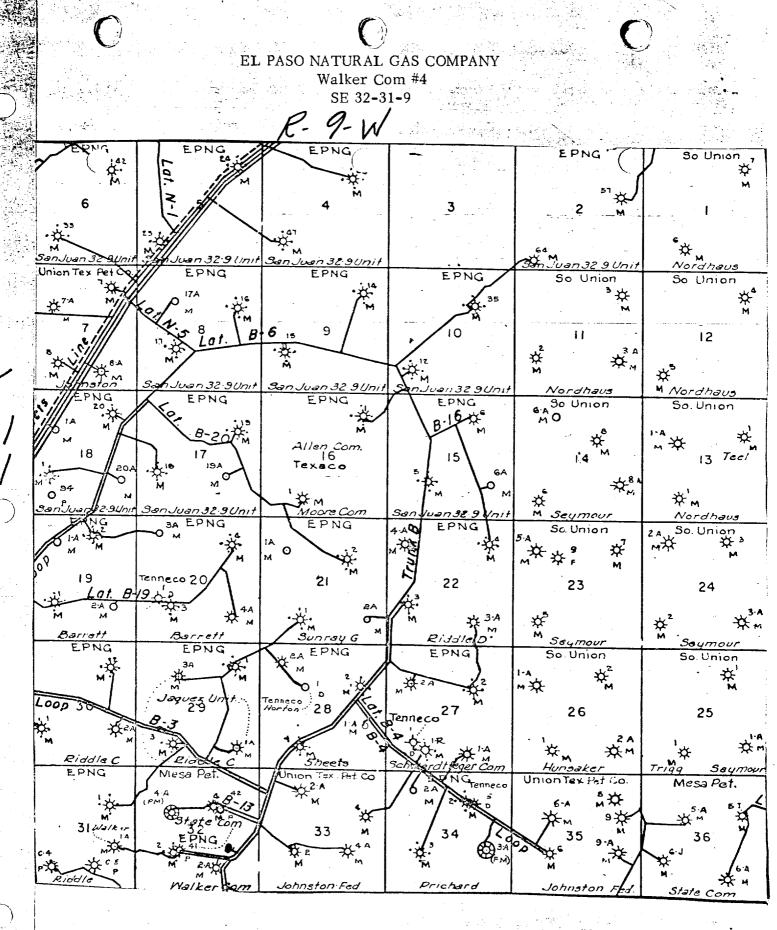
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El Paso Natural 6as Company Typical Location Plat for Pictured Clifts We

EL PASO NATURAL GAS COMPANY Walker Com #4 SE 32-31-9





MAP #2

Proposed Location