SUBMIT IN TRIPLICATES

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

reverse side) マケール・ボーゴ/気は DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND BERIAL NO. GEOLOGICAL SURVEY NM 23041 6. IF INDIAN, ALLOTTEE OF TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK ______ 1a. TYPE OF WORK 7. UNIT ACREEMENT NAME DRILL X DEEPEN [PLUG BACK _____ b. TYPE OF WELL MULTIPLE SINGLE ZONE E. PARM OR LEASE NAME WELL D OIL WELL Schalk 41 2. NAME OF OPERATOR 9. WELL NO. SCHALK DEVELOPMENT CO. 3. ADDRESS OF OPERATOR 10. ALLO AND POOL OR WILDCAT P.O. BOX 25825 / ALBUQUERQUE, NM 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) ← Mesa Verde 790' FSL. 790' FEL. Sec.16. T25N. R3W 11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA At proposed prod. 2one Sec.16, T25N, R3W 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 Miles, Lindrith, New Mexico Rio Arriba 15. DISTANCE FROM PROPOSED 17. NO. OF ACRES ASSIGNED TO THIS WELL 16. NO. OF ACRES IN LEASE LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if any) 160 520 7901 19. PROPOSED DEPTH 20. ROTABY OR CABLE TOOLS DISTANCE FROM PROPOSED LOCATION*
 TO NEAREST WELL, DRILLING, COMPLETED,
 OR APPLIED FOR, ON THIS LEASE, FT. 2640' Rotary 6130 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7335 GR February 1, 1978 23 PROPOSED CASING AND CEMENTING PROGRAM WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT SIZE OF CASING SIZE OF HOLE 150 Sacks Circulated 150' 11" 8-5/8" 24# 6130 $\overline{300}$ Sacks 4-1/2" 10.5# 7-7/8" FORMATION TOPS Cliff House 5465? 33601 OJO Alamo 55533 Menneffee 3503' Kirtland 59537 Point Lookout 3687' Fruitland 61281 38301 Mancos Pictured Cliffs 46721 Total Depth 6130! Chacra gas not eleshanted 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 the vertical depths. Give blowout preventer programif any. 9/13/78 Managing Partner for Federal or State office use)

APPROVAL DATE PERMIT NO. _ TITLE APPROVED BY CONDITIONS OF APPROVAL, IF ANT :

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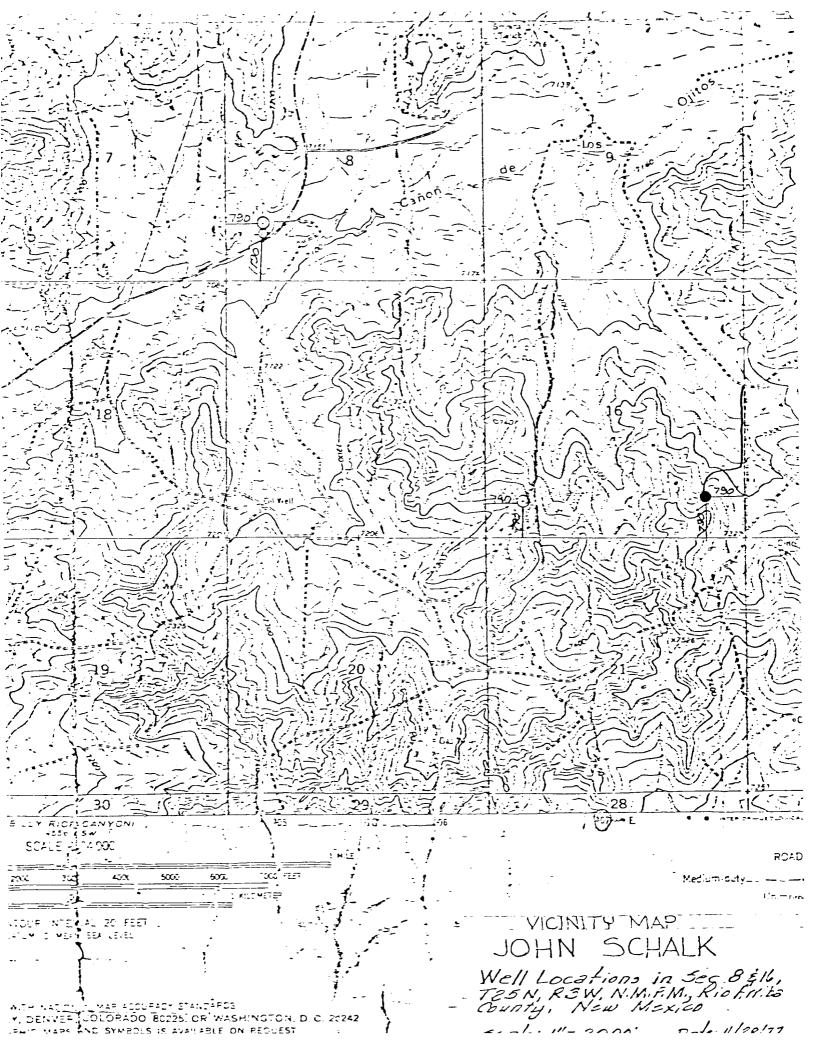
NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

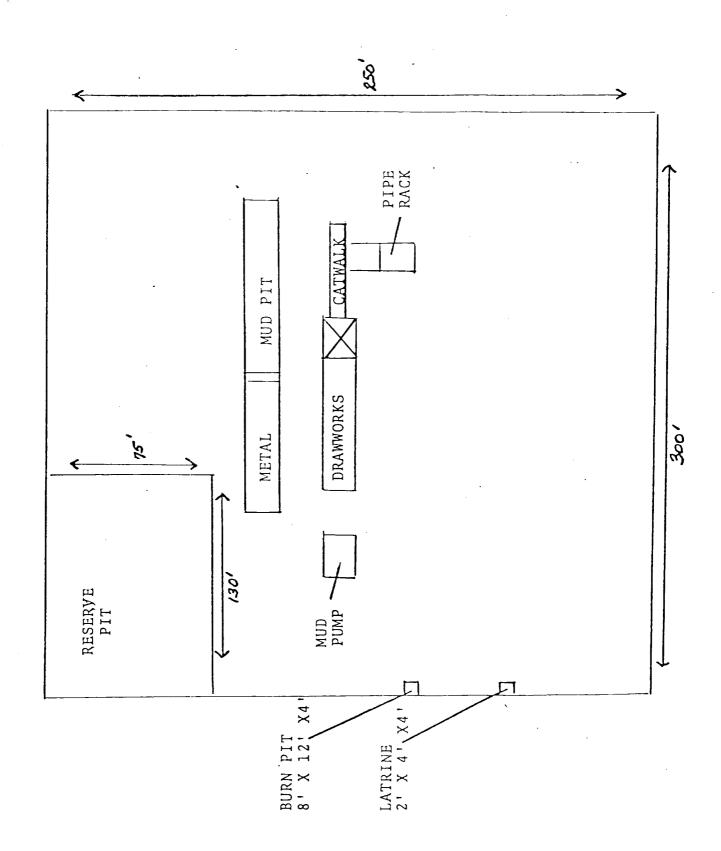
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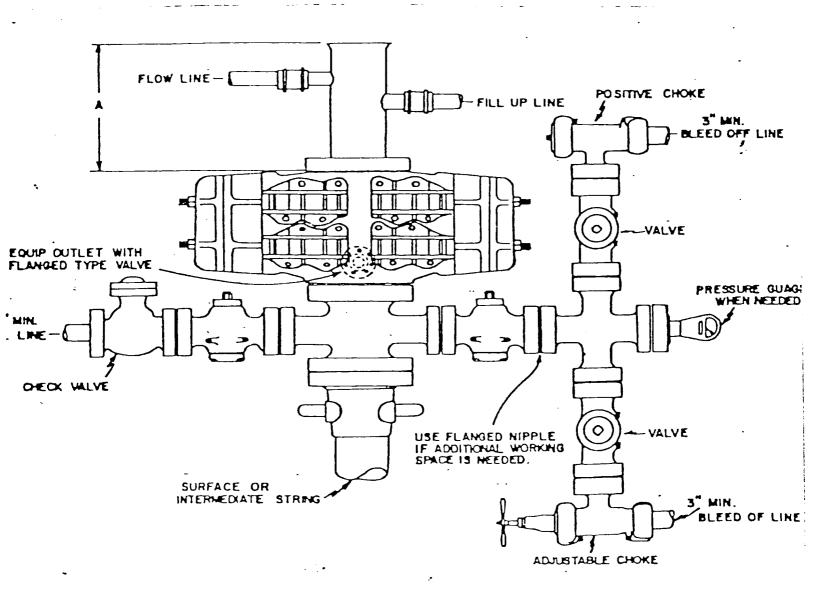
1463 Certificate No.

SCALE-4 INCHES EQUALS 1 MILE

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.







Multi-Point Surface Use and Operations Plan

- Existing roads: Attached map shows existing road running along the East line.
- 2. Planned Access road: Will depart from main (existing) road and run 790' west to proposed sight.
- 3. Location of Existing wells: Getty Oil Company, C.W. Roberts #5, SE NW Sec. 17, T-25N, R-3W, Rio Arriba County, New Mexico.
- 4. Location of existing and/or proposed facilities: None.
- 5. Location and type of water supply: Water will be taken from a water hole 15 miles away and transported by truck to location.
- 6. Source of construction materials: None.
- 7. Methods for handling waste disposal: Cuttings to be disposed of in a reserve pit; a burn pit to be used for disposal of trash, garbage, etc.; and covered on clean-up of location.
- 8. Ancilary facilities: None
- 9. Well site layout: Per attached drawing.
- 10. Restoration of surface: Upon completion of drilling operations, the disturbed surface area will be restored as near as practical to its original contours. If sufficient top soil is encountered, it will be stockpiled for restoration of surface. Restoration will be to the satisfaction of the United States Geological Survey.
- 11. This location slopes at an increase of 10' per 200' to the South. There will be approximately a 10' cut on the South side of the proposed location. Vegetation is sage brush, Pinon and Juniper trees. The surrounding area is comparable and any disturbances to the wildlife will be only temporary. With the restoration of surface, surface damage will be minimal.
- 12. Lessee's or Operator's Representative: John E. Schalk, P. O. Box 25825, Albuquerque, New Mexico, 87125; or J. D. Christesson, 2301 Southside River Road, Farmington, New Mexico, 87401.

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 Arapahoe Drilling Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date 9/13/78

ohn E. Schalk Managing Partner An Archaeological Clearance Survey of Three Proposed Well Locations & Access Roads Conducted for Arapaho Drilling Company

Dabney Ford
Cultural Resource
Management Program
San Juan Campus
N. M. State University
30 November 1977

An Archaeological Clearance Survey of Three Proposed Well Locations & Access Roads Conducted for Arapaho Drilling Company

On November 26, 1977, Dabney Ford of the Cultural Resource Management Program, NMSU, San Juan Campus, conducted an archaeological clearance survey at the request of Mr. J. E. Schalk, Arapaho Drilling Company. Present during the survey were Mr. John Ahlm and Ms. Lois Phillips from Arapaho Drilling Company and Messers. Curtis Stocking and Allan Stocking from San Juan Engineering. The well locations and access roads are on Fee lands with Federal minerals and were surveyed under Federal Antiquities permit 75-NM-013.

METHODOLOGY

The well locations were surveyed by walking transects, 75 feet apart, over the entire easement and the flagged routes of the access roads were walked the full distance.

GENERAL RECOMMENDATIONS

No cultural resources warrenting changes in the original construction plan were found and full archaeological clearance is recommended for the three well locations.

SCHALK 41-1

Fee surface, Federal minerals

The proposed well location, 300 X 300 feet, is in the NE% of the SW% of the SW% of Section 16, Township 25 North, Range 3 West, N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The well will

be 790 feet from the south line and 790 feet from the west line of Section 16. There will be direct access to an existing road.

Vegetation includes sagebrush, Yucca baccata, galleta, blue grama, tumbleweed, juniper, pinon, alkali sacaton, muhly, and seeded grasses all growing in the gravelly sandy loam. The valley bottom and slight slope in rolling terrain have a north northeasterly drainage pattern. Surface deposits are alluvium and sandstone outcrops locally. The area has been chained for sagebrush eradication and had a juniper push and burn.

Approximately five PI Rosa Gray sherds were found scattered over the easement. Less than five lithics; l obsidian flake, l chalcedony flake, and several chert flakes, were also found on the location. Density of these artifacts was l sherd and l lithic per 10 square meters. No depressions, rock or artifact concentrations, or soil anomalies were found to suggest the presence of a pithouse. Due to the extensive surface disturbance (sagebrush chaining and juniper push/burn) the artifacts found cannot be considered in original context. In light of the above information it was felt that the cultural artifacts found did not warrent relocation of the easement. Therefore, archaeological clearance is recommended.

SCHALK 41-2

Fee surface, Federal minerals

The proposed location, 300 X 300 feet, is in the NE% of the SW% of the SW% of Section 8, Township 25 North, Range 3 West,

N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The well will be 1190 feet from the south line and 790 feet from the west line of Section 8. The access road, 20 feet wide and approximately 200 feet long, will approach the location from the east.

Vegetation includes sagebrush, rabbitbrush, juniper, pinon, alkali sacaton, blue grama, tumbleweed, and seeded grasses growing in a loamy clay. The swale or slight drainage has been chained for sagebrush eradication. Drainage is southerly and alluvium is the dominant surface deposit.

No cultural resources were found and clearance is recommended.

SCHALK 41-3

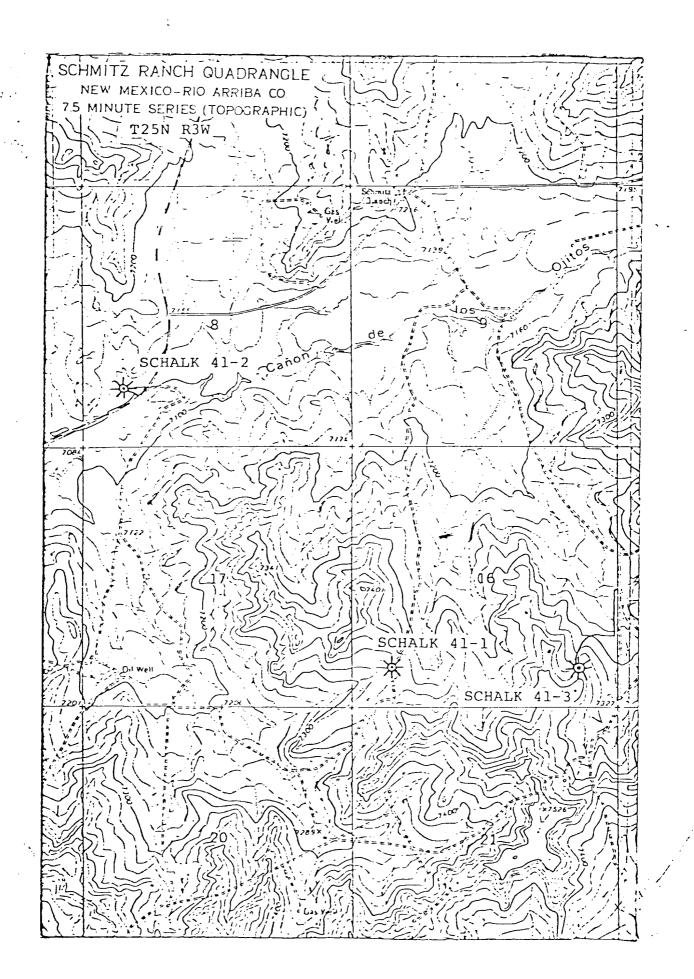
Fee surface, Federal minerals

The proposed well location, 300 X 300 feet, is in the NW% of the SE% of the SE% of Section 16, Township 25 North, Range 3 West, N.M.P.M., in Rio Arriba County, New Mexico (Figure 1). The well will be 790 feet from the south line and 790 feet from the east line of Section 16. The access road, 20 feet wide and 2000 feet long, will parallel the fence (and section) line for approximately 1100 feet then follow the drainage contours to the well approaching the location from the north.

Vegetation includes juniper, pinon, gambel's oak, blue grama, sagebrush, snakeweed, <u>Eriogonum spp.</u>, rabbitbrush, tumbleweed, galleta, bee weed, and seeded grasses (majority of area has been sagebrush chained). Soil is a gravely loamy sand in the valley

bottom and on the terrace slope. Local drainage patterns are northerly and alluvium is the dominant surface deposit.

Two sherds of Gallena Plain and less than 5 chert flakes were found on the location. These are the result of alluvial deposition, washing down from the sandstone ridges south and east of the location and are not in original context. No cultural resources were found on the access road right-of-way. Therefore, full archaeological clearance is recommended.



SURFACE REHABILITATION AGREEMENT

THIS AGREEMENT as of Oct 14, 1978, by and between Your Schmitz, hereinafter called "Surface Owner", and Schalk Development Company, hereinafter called "Operator".

WITNESSETH:

WHEREAS, Operator desires to construct a location for the drilling of a natural gas well and/or oil well on surface land owned by Surface Owner.

NOW, THEREFORE, in consideration of the premises, . Surface Owner and Operator agree as follows:

- 1) Operator will construct or cause to be constructed an access road to the proposed location from the nearest existing road as the terrain will allow. The road will be permanently maintained to allow access to the location throughout the drilling operation and while the well is in a producing state.
- 2) Upon completion of drilling operations, Operator will restore the disturbed surface area as near as practical to its original condition, except for permanent facilities necessary to producing a natural gas or oil well. Restoration will follow the guidelines as set forth by the U. S. Geological Survey.

IN WITNESS WHEREOF, the parties hereto have caused this agreement to be duly executed on the day and year first above written.

OPERATOR Schalk Development Company

SURFACE OWNER

BY John a. allen II

BY Jones