

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Consolidated Oil & Gas, Inc.

3. ADDRESS OF OPERATOR

1860 Lincoln St., Denver, Colorado 80295

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

At surface

H 1850' FNL, 800' FEL
At proposed prod. zone Same 700'

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

35 miles northwest of Lindrith, New Mexico

15. DISTANCE FROM PROPOSED*

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

800'

16. NO. OF ACRES IN LEASE

320 2503.09

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160 E/320

18. DISTANCE FROM PROPOSED LOCATION*

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

900'

19. PROPOSED DEPTH

8400'

20. ROTARY OR CABLE TOOLS

Rotary

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

7211' Ungraded Ground

22. APPROX. DATE WORK WILL START*

10/15/80

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15-1/2"	10-3/4"	40.5#	300'	300 sk.
9-7/8"	7-5/8"	26.40#	4230'	250 sk.
6-3/4"	5-1/2"	15.5 & 17#	4030-8400'	350 sk.

DRILLING OPERATIONS AS DESCRIBED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

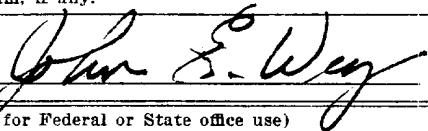
appeal pursuant to 30 CFR 290.

1. Drill 15-1/2" hole to 300'. Run 10-3/4" casing and cement to surface.
2. Install casinghead, BOP. After 12 hours, test casing, casinghead, BOP and Kelly cock to 700 psi.
3. Drill 9-7/8" hole to 4230'. Run 7-5/8" casing and cement with 250 sk.
4. Change circulating medium to air and drill 6-3/4" hole to estimated total depth of 8400'. Run logs.
5. Run 5-1/2" liner from 3040'-8400' and cement with 350 sk.
6. Perforate Dakota formation, stimulate and complete.

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



TITLE

Div. Operations Engineer

DATE

Aug. 5, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY



TITLE

DATE

All distances must be from the outer boundaries of the Section

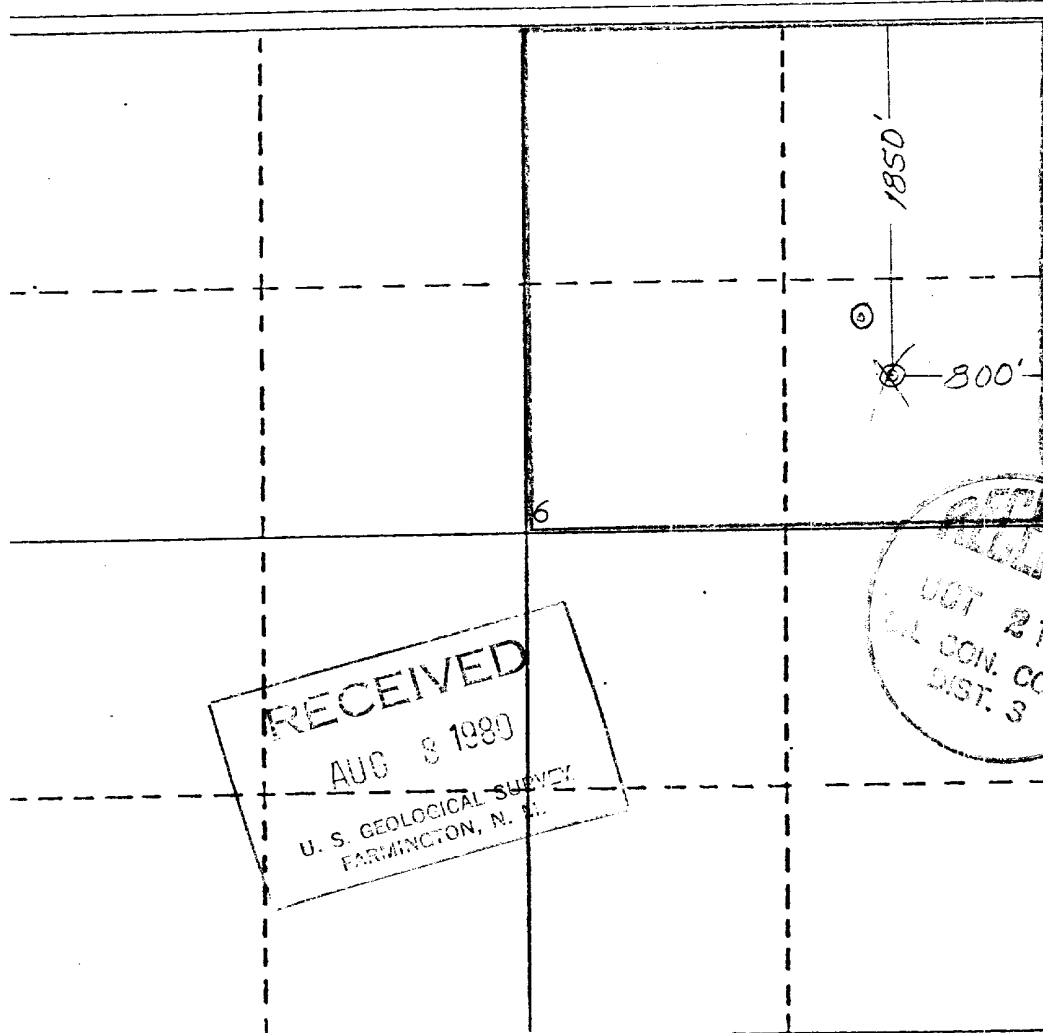
Operator CONSOLIDATED OIL & GAS, INC.		Lease TRIBAL C		Well No. 4-E
Well Letter H	Section 6	Township 26 NORTH	Range 3 WEST	County RIO ARriba
True North Location of Well:				
1850 feet from the	NORTH line and	800 feet from the	EAST line	
Ground Level Elev. 7211	Producing Formation Dakota	Pool Jicarilla Area - Basin	Dedicated Acreage: 160.320 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 _____

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 Division.



CERTIFICATION

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

Name **John E. Wey**

Position
Division Operations Engineer

Company
Consolidated Oil & Gas, Inc.

Date
August 5, 1980

I hereby certify that the well location shown on this plat was located from field notes of actual survey 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
June 16, 1980

Registered Professional Engineer and/or Land Surveyor

James P. Leese

Certificate No.
1463



United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
JICARILLA AGENCY
DULCE, NEW MEXICO 87528

IN REPLY REFER TO:

Real Property
Management-900

AUG 27 1980

District Oil & Gas Supervisor
U. S. Geological Survey
P. O. Box 957
Farmington, New Mexico 87401

Gentlemen:

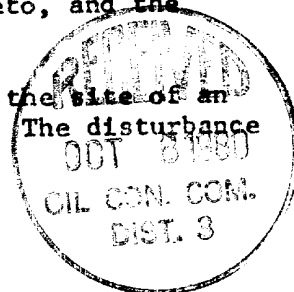
On July 9, 1980 we joined in inspecting seven (7) proposed locations for Consolidated Oil & Gas, Inc. Those in on the inspection were: Larry Nelson and Aubry Prather, Consolidated Oil & Gas, Inc., Kate Hoffman, Cultural Resource Management, San Juan Campus, New Mexico State University, Barbara Conklin, U. S. Geological Survey, and Harold TeCube, Jicarilla Agency.

The legal description of each location inspected are listed as follows:

C4E 1850' FNL 800' FEL S. 6, T.26N., R.3W., NMPM
C1E - 1520' FNL 1235' FWL S. 6, T.26N., R.3W., NMPM
NW Federal #4E 910' FSL 1710' FEL S. 8, T.26N., R.4W., NMPM
Hoyt 2E 1600' FSL 790' FEL S. 5, T.26N., R.4W., NMPM
NW Federal #5 800' FNL 1550' FWL S.7, T.26N., R.4W., NMPM
NW Federal #3 1550' FSL 950' FWL S.6, T.26N., R.4W., NMPM
Jicarilla #3E 1800' FNL 1700' FWL S. 8, T.25N., R.5W., NMPM

On the C4E location an archaeological site was discovered within 75 feet of the stake. It was on a small hill immediately east of the location. We decided that it would be best to move the location about 100 feet in the northwest direction. The new location would mean that the location would be closer to the existing service road on the east side of the pad. When the pad is constructed it would probably extend to the existing service road. As for probable environmental effects, an area of size to accommodate the drilling rig would be leveled clearing it of existing natural cover-trees, shrubs, some grasses. Such an effect would be immediate on wild game habitat as this vast mesa terrain is ideal for deer and elk. Overall, the effect would add to the hundreds of locations, many in similar surroundings, that show "surface scars" at the pad and by the access road thereto, and the natural pipeline route therefrom.

The C1E sets right off of on the west of New Mexico #537 at the site of an old borrow pit used years ago by BIA during work in NM 537. The disturbance



should be minimal since it has had prior disturbances. This sets in a livestock grazing area.

The NW Federal #4E is in the small canyon system around Honolulu Mesa and is in the "Bull Pasture" area. It is in the Canyon bottom and sets near the wall of the mesa that rises suddenly to the rimrock bench high above. The area to the south opens up and declines for about 2 miles to meet Tapacitos Wash. Also, this location sets adjacent to and on the south of El Paso Exploration 119 No. 7A Well. It would be part of that same pad area, but about four feet lower. This sets in a good livestock grazing area.

The Hoyt 2E location sets in a southerly direction from the Hoyt 2A location, and is well into the fringes of pinon-juniper cover. It sets about 4 feet above the 2A pad area requiring about a 8 feet cut into a slope. This area also is deal for wild game habitat.

The NW Federal #5 location sets to the east of El Paso Exploration Jicarilla N#10A location. The existing pad of the N#10A location would be extended and would require about a 7 feet cut into the slope. Some pinon-juniper trees, shrubs would be removed. This sets in a game habitat area.

The NW Federal #3 location sets a little south-southeast of an existing location, El Paso Exploration 119#5 location. There is required about a 75 feet access road. There is typical terrian ruggedness at this site that require a ~~maximum~~ cut of 4 feet and likewise about a 4 feet fill. Pinon and juniper trees, shrubs would be cleared to make the location. This also sets in a good game habitat area.

Jicarilla #3E sets in the extreme west mesa extension of Honolulu Mesa. The flat top area common to mesas is exhibited here only with a slight and gradual decline to the northwest. The mesa edge of Honolulu Mesa is to that same direction and drops at about 600 feet steeply a hundred feet or so. There are few trees dotting the continuance of the hill to the south. About a 5 feet cut is necessary to level the area. This sets in a good game habitat area.

The emphasis of many of our past, concurrence letter should likewise extend to and apply on these seven locations in that it affects the overall reservation-wide environmental picture, that in most cases, the increase in activity has been because of the natural energy situation or by the tribe's pressure for development, that participants are conscientious to respect the tribe's concerns, and that BIA is the representative of the Tribe until further notice. In one of our concurrence letter we indicated that the tribe had an environmental person, but that was short-lived, as the person eventually resigned.

We are listing the wells hereafter to give the painting color recommended, and to recommend at least four species of grasses. The seeding method should

be by the instructions given under General Instructions sent to operators by your office.

C4E. Green paint; seed mix: western wheatgrass 2.0 lbs., Indian ricegrass 1.5 lbs., needle-n-thread 1.5 lbs., galleta 2.0 lbs., for a total of 7.0 lbs. of pure-live-seed mix per acre.

C1E. Green paint; seed mix: western wheatgrass 2.0 lbs., Indian ricegrass 1.5 lbs., needle-n-thread 1.5 lbs., smooth brome 2.0 lbs., for a total of 7.0 lbs. of pure-live-seed mix per acre.

NW Federal #4E. Green paint; seed mix: western wheat 2.0 lbs., Indian ricegrass 1.5 lbs., sand dropseed 1.5 lbs., galleta 2.0 lbs., for a total of 7.0 lbs., of pure-live-seed mix per acre.

Hoyt 2E. Green paint. Seed mix: western wheatgrass 2.0 lbs., Indian ricegrass 1.5 lbs., needle-n-thread 1.5 lbs., galleta 2.0 lbs., for a total of 7.0 lbs. of pure-live-seed mix per acre.

NW Federal #5. Green paint. Western wheatgrass 2.0 lbs., Indian ricegrass 1.5 lbs., needle-n-thread 1.5 lbs., smooth brome 2.0 lbs., for a total of 7.0 lbs. of pure-live-seed mix per acre.

NW Federal #3. Green paint. western wheatgrass 2.0 lbs., Indian ricegrass 1.5 lbs., needle-n-thread 1.5 lbs., galleta 2.0 lbs., for a total of 7.0 lbs. of pure-live-seed mix per acre.

Jicarilla #3. Gray paint. western wheatgrass 2.0 lbs., Indian ricegrass 1.5 lbs., needle-n-thread 1.5 lbs., galleta 2.0 lbs., for a total of 7.0 lbs. of pure-live-seed mix per acre.

Finally, we concur with the approval of the Application for Permit to Drill and the Surface Development and Operation Plan with the painting color recommendations that should be the color for all above-ground structures. Operator must provide the color to the pipeline company to whom the gas will be sold, that is, Northwest Pipeline Corporation, or Gas Company of New Mexico, or El Paso Natural Gas Company, so that the purchaser may likewise paint its above-ground structures to match the Operator's. Operator must see that all disturbed area be reseeded with the seed mixture recommended and by the general application of a good reseeding method, that is, good seed bed preparation, good planting method, good compaction, with the understanding that it be tried again if seeds do not germinate.

We have no objections to the commencement of dirt work, and subsequent drilling activity.

Sincerely,

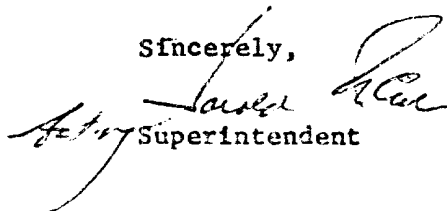

Superintendent

DIAGRAM "A"

U.S.G.S. APPLICATION FOR PERMIT
TO DRILL

CONSOLIDATED OIL & GAS, INC - OPERATOR

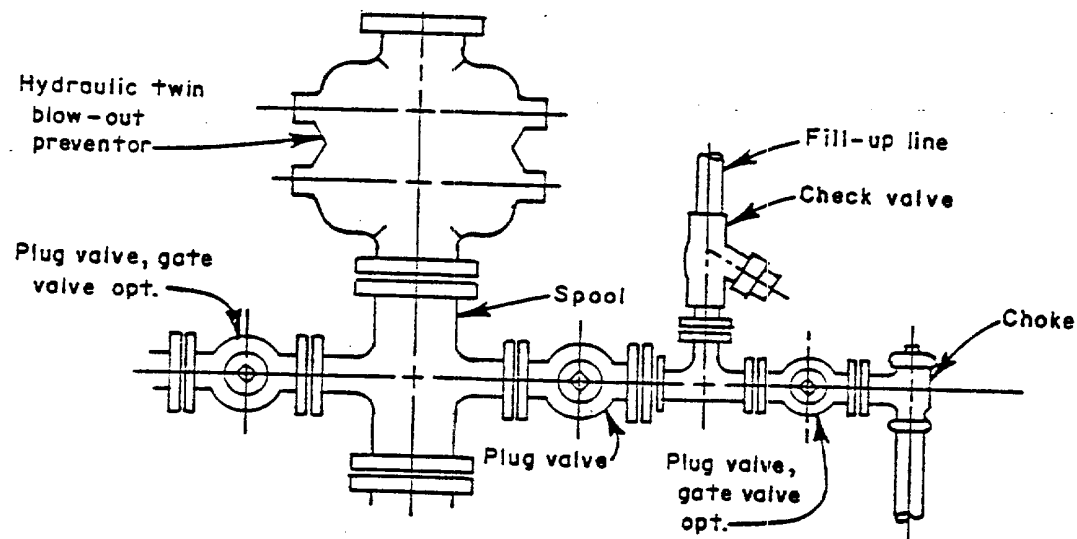
TRIBAL "C" No. 4-E

Sec. 6, T26N, R3W

Rio Arriba County, New Mexico

Schematic of Pressure Control

Equipment



DEVELOPMENT PLAN FOR SURFACE USE

TRIBAL "C" 4-E, "H"

Sec. 6, T26N, R3W
Rio Arriba County, New Mexico

Consolidated Oil & Gas, Inc. - Operator

1. Existing Roads

See enclosed topographic map (Attachment "A") which shows existing improved and unimproved roads.

2. Planned Access Roads

There is an existing road to the north and the access road would be approximately 20' wide and 80' long. (See Attachment "A")

3. Location of Existing Wells

See enclosed lease map (Attachment "B").

4. Location of Existing and/or Proposed Facilities

See enclosed lease map (Attachment "B") showing location of wells and facilities operated by Consolidated Oil & Gas, Inc. If production is encountered, the tank battery and other required producing equipment will be located per attached completion plat. (Attachment "C")

5. Location and Type of Water Supply

Water for drilling will be trucked or purchased locally, if available, and transported via irrigation pipe.

6. Source of Construction Materials

No additional construction material will be required.

7. Methods of Handling Waste Disposal

All waste material will be contained by earthen and steel pits. Earthen pits will be subsequently backfilled and buried. A portable chemical toilet will be furnished for drilling personnel.

8. Ancillary Facilities

No separate drill campsites are proposed.

9. Wellsite Layout

The drilling site location will be graded and will approximate 200' x 250' with natural drainage to the southeast. Care will be taken while grading to control erosion. (See Attachment "D")

10. Plans for Restoration of Surface

- A. Following drilling and completion operations, all equipment and material not needed for operations will be removed. Pits containing fluid will be fenced until filled, with any additional pits filled and the location cleaned of all trash and junk.
- B. After abandonment, any special rehabilitation and/or revegetation requirements (reseed with seed mixture No. 2) will be complied with and accomplished as expeditiously as possible. All pits should be filled and leveled within 90 days after abandonment.

11. Other Information

The location is on the side of a slope in a rolling hills area, with alluvial surface deposits, and vegetation consisting of pinon, sagebrush, scruboak and Indian rice grass. No residences or structures are nearby. The surface rights are under jurisdiction of the Jicarilla Apache Tribe. If, during operations, any historic or prehistoric ruin, monument or site, or any object of antiquity is discovered, work will be suspended and the discovery will be reported to the appropriate regulatory agency.

12. Operator's Representative

Consolidated Oil & Gas, Inc.
John E. Wey
Division Operations Engineer
1860 Lincoln Street, Suite 1300
Denver, Colorado 80295
Phone (303) 861-5252

13. Certification

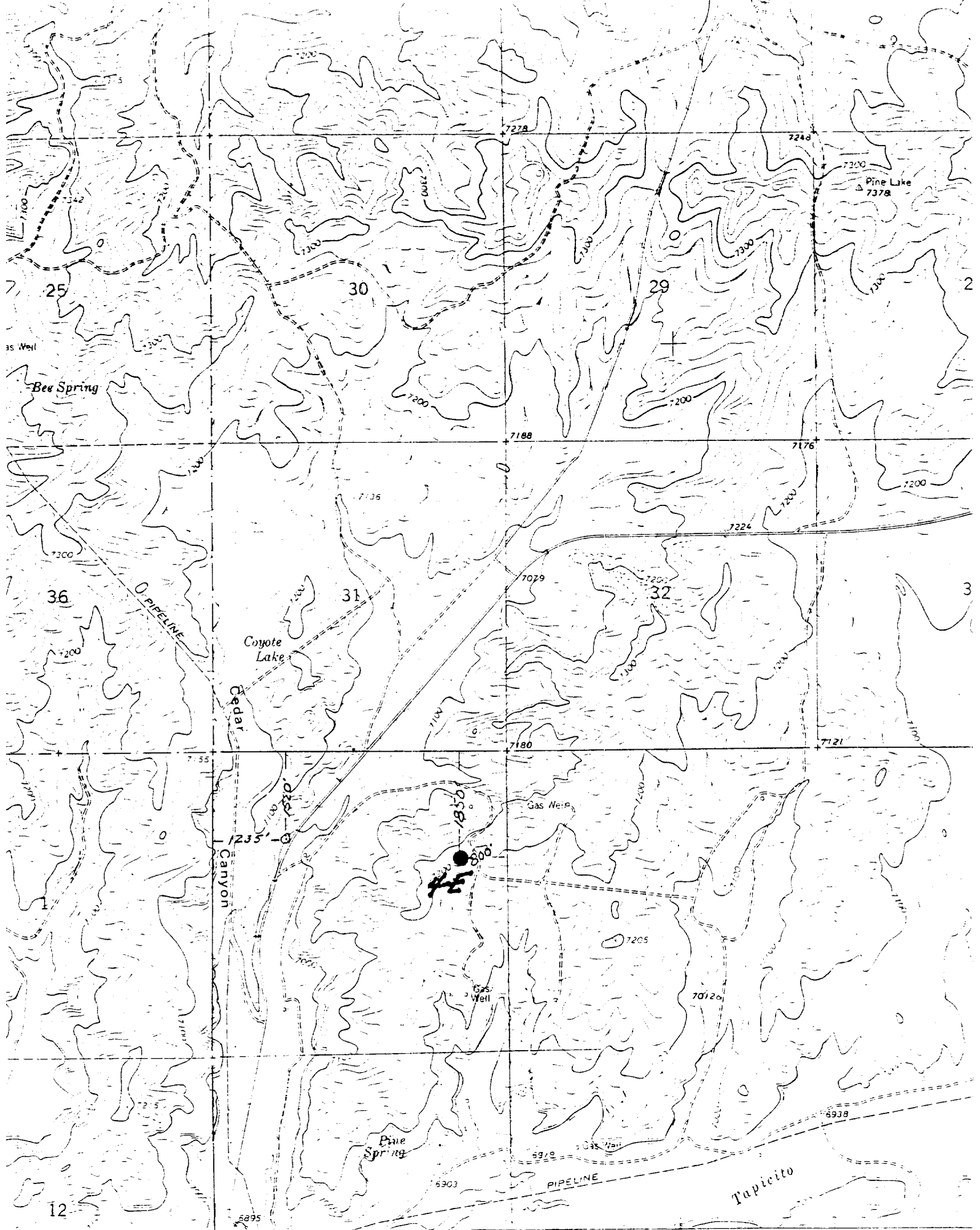
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated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

8/6/80

Date

John E. Wey

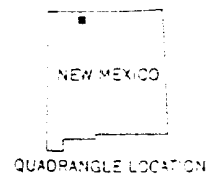
John E. Wey
Division Operations Engineer



ISCHMITZ RANCH R. 3 W.
4556 1 NW
SCALE 1:24000
Consolidated Oil & Gas, Inc.
Tribal C #4-E
SE $\frac{1}{4}$ Sec. 6, T26N, R3W, N.M.P.M.
Rio Arriba County, New Mexico

ATTACHMENT "A"

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



284
410
448
392

316
104
236
TA

8
PC
DK

AMPLIN 8-25
PC and DK)

36

31

32

R4W

R3W

TRIBAL "C" I-6
(PC and DK)

658
596
1250 3 PC
621 MV
TRIBAL C 3-6
PC and MV
4E

296
370 6 PC
P&A DK
TRIBAL "C" 5-5
PC and MV

TRIBAL "C" 2-6
(PC and MV)

TRIBAL "C" 4-6
(PC and DK)

TRIBAL "C" 6-5
(PC and DK)

TRIBAL C 8-5
(PC and DK)

1082
462
400
828

693
536
414
632

4
PE
DK

926
489
623
404

173
152
115
PSA

12

8

T26N

1102 7
 561 9
 402 PC
 213 * MV
 11 11
 TRIBAL C 9-7
 (PC and MV)



TRIBAL "C" II-8
(PC and MV)

TRIBAL "C" 10-7
(PC and DK)

40T
TRIBAL "C" 12-8
(PC and DK)

669
371
312
359

1840
835
541
239

(PA)
PC   PC
MV

13

18

17

548
344
421
431

JENNEY 1-13
(MV and DK)

ATTACHMENT "B"
TRIBAL "C" 4-E

SENE Sep. 6, T26N, R3W
Rio Arriba County, New Mexico
LEASE MAP OF WELLS AND FACILITIES
Consolidated Oil & Gas, Inc.

24

19

20



GDK

OK

DK PC
MV

ATTACHMENT "C"

DEVELOPMENT PLAN FOR SURFACE USE

CONSOLIDATED OIL & GAS, INC. - OPERATOR

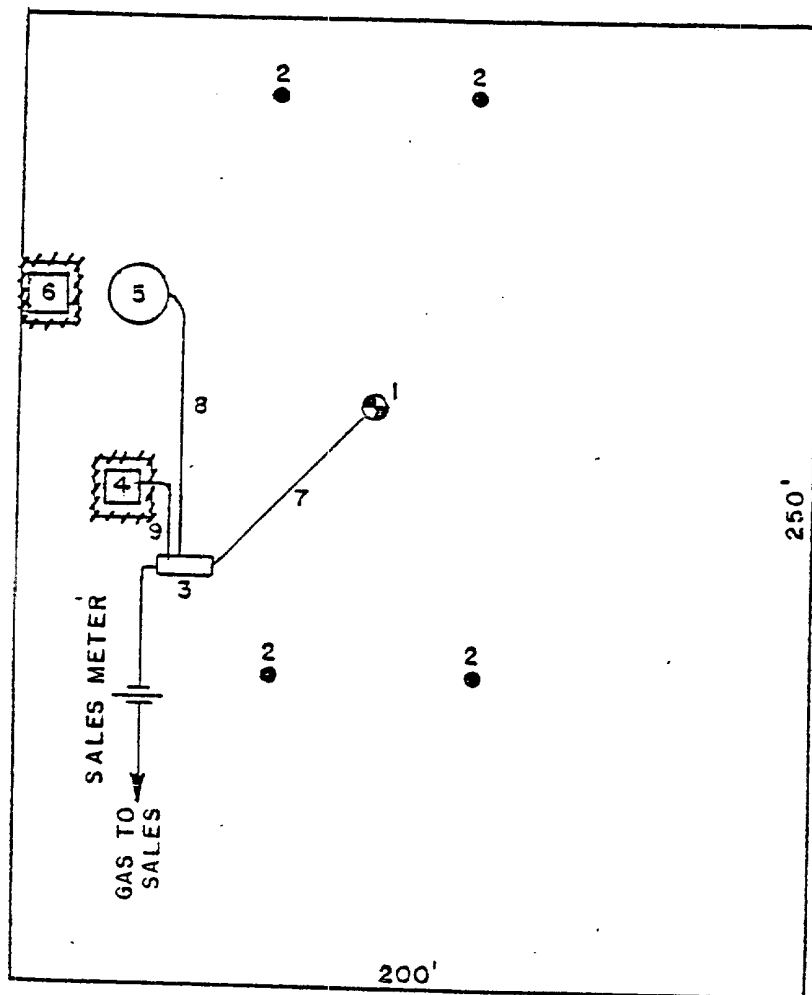
TRIBAL "C" 4-E

SENE, Sec. 6, T26N, R3W

Rio Arriba County, New Mexico

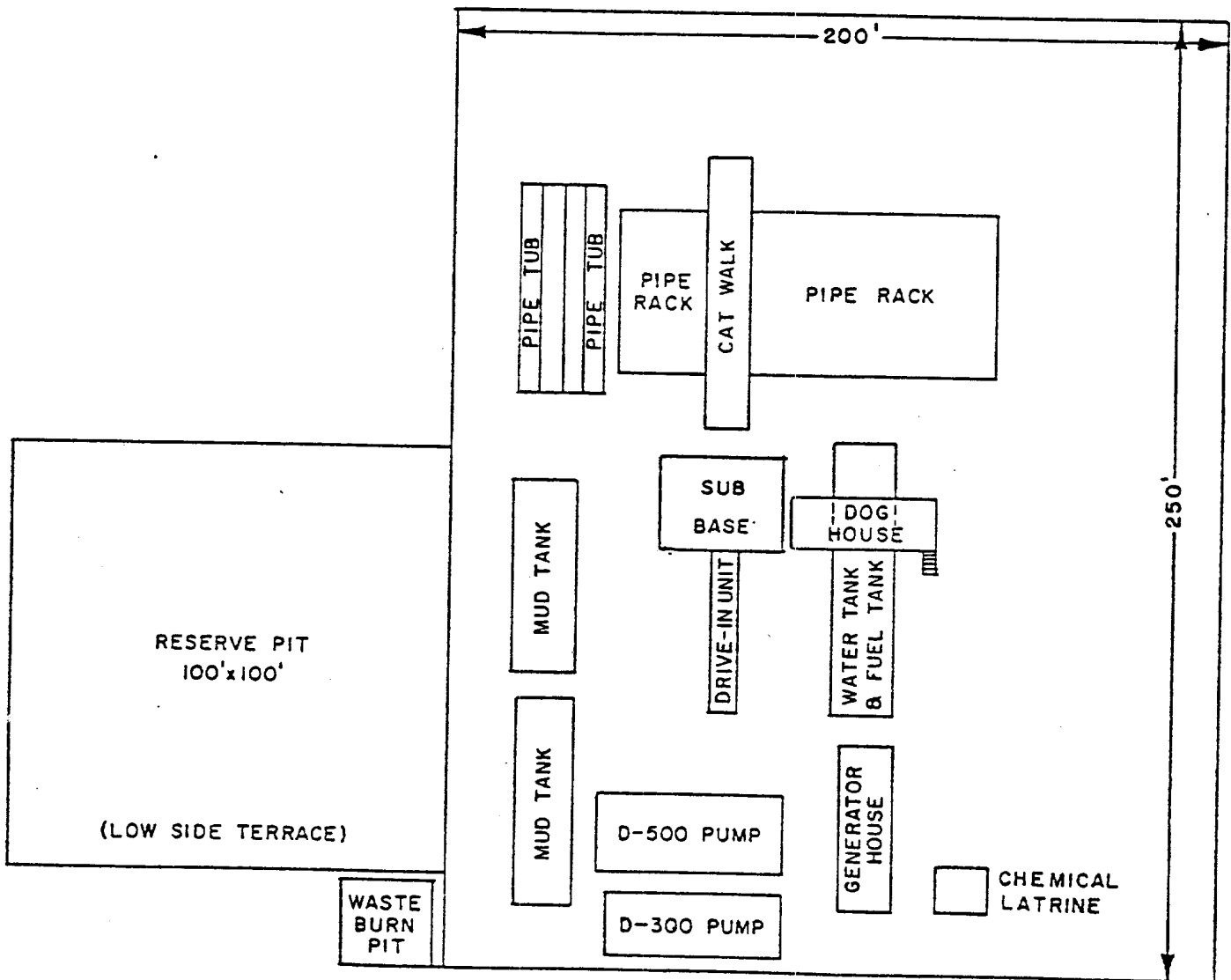
PROPOSED PRODUCING FACILITIES

1. Well
2. Dead Men
3. Prod. Unit
4. Water Pit
5. 300 bbl. Oil Tank
6. Water Pit
7. 2" Buried flow line
8. 1½" Oil Line
9. 1½" Water Line



1" equals 50'

Fence - - - - -



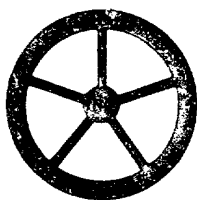
ATTACHMENT "D"

DEVELOPMENT PLAN FOR SURFACE USE

CONSOLIDATED OIL & GAS, INC. - OPERATOR

TRIBAL "C" 4-E
 SENE Sec. 6, T26N, R3W
 Rio Arriba County, New Mexico

DRILLING EQUIPMENT LAYOUT



Consolidated Oil & Gas, Inc.

LINCOLN TOWER BUILDING
1860 LINCOLN STREET
DENVER, COLORADO 80295
(303) 861-5252

August 5, 1980

U. S. Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Re: Application for Permit to Drill
Tribal "C" No. 4-E, "H"
Sec. 6, T26N, R3W
Rio Arriba County, New Mexico

Gentlemen:

Following is the information requested in NTL-6 to accompany the permit to drill:

1. Location: 1850' FNL, 800' FEL, "H", Sec. 6, T26N, R3W
Rio Arriba County, New Mexico
2. Elevation of Unprepared Ground: 7211'
3. Geologic Name of Surface Formation: Nacimiento
4. Type of Drilling Tools: Rotary (mud and air)
5. Proposed Drilling Depth: 8400'
6. Estimated Geologic Markers:
7. Anticipated Gas & Oil

Ojo Alamo (Base)	3550'	
Pictured Cliffs	3935'	X
Cliff House	-	
Pt. Lookout	6075'	X
Greenhorn	8075'	
Dakota	8175'	X

8. Casing Program and Setting Depth:

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Condition</u>	<u>Setting Depth</u>
Surface	10-3/4"	40.5#	K-55	New	300'
Intermediate	7-5/8"	26.40#	K-55	New	4230'
Production (liner)	5-1/2"	15.5 & 17#	K-55	New	4030-8400'

9. Casing Setting Depth and Cementing:

Surface casing will be set at 300'. Cement will be circulated to surface with approximately 300 sk. Class "B" neat cement containing 2% CaCl_2 .

Cementing Prognosis:

Intermediate casing will be run to 4230'. The casing will be cemented as follows:

150 sk. 65/35 Pozmix with 12% gel, tailed in with 100 sk. neat 2% CaCl_2 .

5-1/2" production liner will be cemented from 8400-4030' with 350 sk. of 50/50 Pozmix, 10 lb/sk. of Gilsonite, 0.4% FLA.

Note: Exact volume of cement for production liner will be determined after running Caliper log.

10. Pressure Control Equipment: See attached Diagram "A"

11. Circulating Media: 0-300' fresh water spud mud; 300'-4230' fresh water, low solid mud with following properties:

Viscosity 32-28 sec., water loss 20-6 cc, weight 8.5-9.0 ppg with heavier weights if required by well conditions. From 4230' to total depth well will be drilled with air or gas.

12. Testing, Logging and Coring Programs:

- a. Open hole logs will be run prior to running production liner.
- b. Coring is not planned

13. Abnormal Pressure or Temperature and Hydrogen Sulfide Gas:

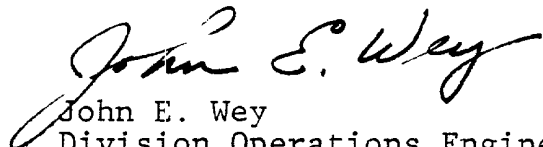
We do not anticipate abnormal pressure, temperature or hydrogen sulfide gas; however, a remote control blowout preventer as shown on Diagram "A" will be installed.

14. Anticipated Starting Date: Drilling operations should start within 60 days after receiving approval.

15. Other Facets of the Proposed Operations: None

Yours very truly,

CONSOLIDATED OIL & GAS, INC.



John E. Wey
Division Operations Engineer
Rocky Mountain Division

JEW:lt
Attach.