

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  
 Four "D" Oil Company

3. ADDRESS OF OPERATOR  
 P.O. Box 2942 Grand Junction, CO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface *FWL* 990 ft. *S.N.E.* - *330* ft. *E.W.L.* *NW NW-*  
 At proposed prod. zone *500 FWL moved by USGS NW NW*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 35 miles N.E. of Cisco, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
 990 ft. SNL      330 ft. EWL

16. NO. OF ACRES IN LEASE  
 200

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 10 acres

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 2500 *Entrada*

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4744 GR

22. APPROX. DATE WORK WILL START\*  
 as soon as possible

5. LEASE DESIGNATION AND SERIAL NO.  
 U-15049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.  
 Fed 12-3

10. FIELD AND POOL, OR WILDCAT  
*Danish Wash undesignated*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 12  
 T 20S, R. 23 E, SLB & M

12. COUNTY OR PARISH  
 Grand

13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4	7	17	150	45 sacks with returns to surface
6 1/4	4 1/2	10.5	TD	50 sacks

This well to be drilled to test Entrada sandstone.

Calvert-Western's Rig is equipped with A.P.I. series 900 Double Ram blowout preventers. They will be tested for drilling out under surface pipe and checked daily or when drill pipe comes out of the hole.

Notices to: Manager, Land Office, BLM, SLC  
 District Manager, BLM, Moab



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 L. R. Robinson TITLE AGENT DATE 10-18-79

(This space for Federal or State office use)

PERMIT NO. 43-019-30601 APPROVAL DATE January 28, 1980

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

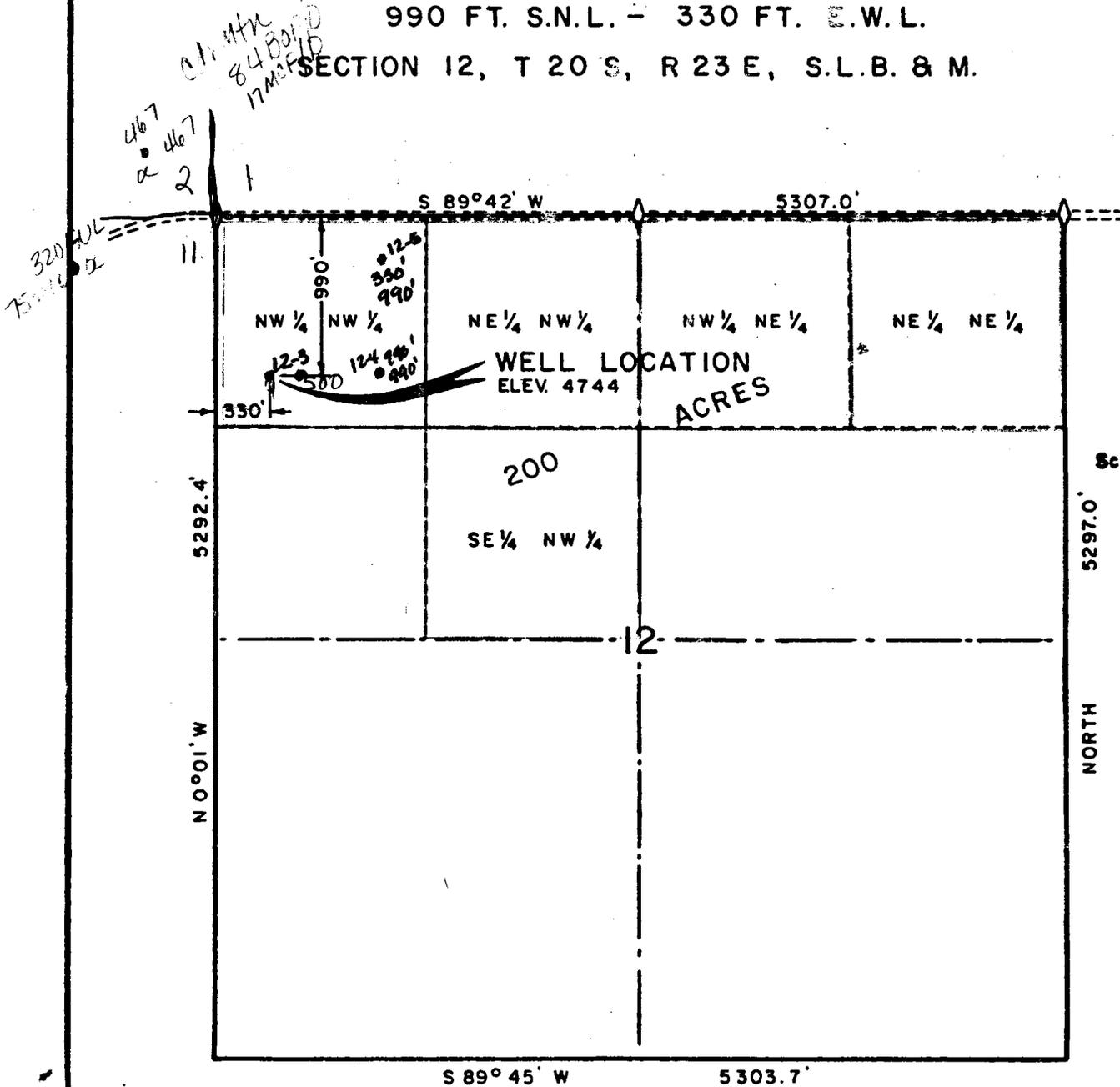
WELL LOCATION

990 FT. S.N.L. - 330 FT. E.W.L.

SECTION 12, T 20 S, R 23 E, S.L.B. & M.



Scale 1" = 1000'



I, David L. Bear do hereby certify that this plot was plotted from notes of a field survey made under my direct responsibility, supervision and checking on Sept. 28, 19 79.

*David L. Bear*  
Registered Land Surveyor

WESTERN ENGINEERS, INC.
WELL LOCATION
4-D OIL COMPANY
FEDERAL 12-3
GRAND COUNTY, UTAH
SURVEYED G.L.A. DRAWN R.W.O.
GRAND JUNCTION, COLO. 9/28/79

S.L.B.&M.  
R 23 E R 24 E

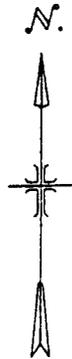
T 195  
T 205  
S.L.B.&M.

FEDERAL 12-2  
FEDERAL 12-5  
JMD Trill  
FEDERAL 12-4  
FEDERAL 12-3

D A N I S H F L A T

COTTONWOOD ROAD

— ACCESS ROAD



0 5 10  
SCALE IN MILES

REVISED 10/1/79	WESTERN ENGINEERS, INC.
	MAP OF
	ROAD LOCATION TO
	4-D OIL COMPANY WELLS
	T 205 R 23E S.L.B.&M.
	GRAND COUNTY, UTAH
	DRAWN G.L.P.
	GRAND JUNCTION, COLO. 2451-987-1
	9/7/79

FOUR "D" OIL COMPANY  
P.O.Box 2942  
Grand Junction, CO 81501

October 12, 1979

Mr. E.W.Guynn, District Engineer  
United States Department of the Interior  
Geological Survey  
Conservation Division  
8440 Federal Building  
Salt Lake City, Utah 84138

Dear Sir:

Four "D" Oil Company of Grand Junction, Colorado wishes to make application to drill on Federal Lease #U-15049 containing 200 acres located as follows: all of Section 12, T20S, R23E, BLM land, Grand County, Utah, Federal 12-3.

In addition to information given in "Application for Permit to Drill, Deepen, or Plug Back" may we submit the following information on plan of development:

1. Mancos Shale is the geologic name of the surface formation.
2. The estimated top of the important geologic marker is the Dakota Formation, 1800 ft.
3. The estimated depth at which water, oil, gas or mineral-bearing formations are expected to be encountered are Dakota Formation, 1800 ft.; Cedar Mountain, 1710 ft.; Morrison Formation, 2000 ft.; Brush Basin, Salt Wash Formation, and Entrada Sandstone, 2300 ft.
4. The proposed casing program is 150 ft. of 7 inch 17 pounds per foot Schedule 50, T.D. 2300-2400 4½ 10 pounds Schedule 55.
5. No.1 drilling rig is equipped with A.P.I. with series 900 double ram blow-out preventers. They will be tested for drilling out under surface pipe and checked daily or when drill pipe comes out of the hole.
6. We will drill this well with air until we encounter water or oil in any of the sands and we will then go to a water base mud, 9 pounds or 10 pounds.
7. The auxillary equipment to be used consists of 1) Kelly cocks, 2) floats at the bit, 3) monitoring equipment on the mud system, 4) a sub on the floor with a full opening valve to be stabbed into drill pipe when the Kelly is not in the string.

E.W.Guynn, U.S.Dept. of Interior  
October 12, 1979  
Page -2-

8. We will test and log with Schlumber Well Service. We will core if necessary.
9. We do not expect any abnormal temperatures or any hydrogen sulfide gas.
10. Immediate starting date; approximately 10 days of operation.

Sincerely,

Four "D" Oil Company  
Well #3  
Sec. 12, T20S, R23E

Multipoint Requirements to Accompany APD

1. Existing Roads: Attached photocopy of U.S.G.S. quadrangle shows main highways and roads leading to well location in Sec. 12, T20S, R23E.
  - B. Regional map "B" attached contains this information.
  - C. Access road(s) to location are labeled.
  - E. Existing jeep road within 990 ft. of well site
  - F. If well produces, we plan to improve access roads.
2. Planned Access Roads: There is an existing jeep road starting in the Southwest corner of Section 11 off of the main road from Cisco Springs and also there is a jeep road starting in Section 19 which will give us access two ways to the well in Section 12. No road work will have to be done. Map "A" shows the location of the well to the south of the jeep trail.
  - (1) The existing road is 16 ft. wide.
  - (2) The existing road has a 2% maximum grade.
  - (3) No turnouts.
  - (4) All drainage on the well site will be to the south.
  - (5) No fills are necessary.
  - (6) Surface material is Mancos Shale.
  - (7) No fence needs to be cut. No gates need to be installed. Cattle guards will be installed where needed.
  - (8) There is no anticipated construction on any portion of the existing jeep road we plan to use. Roads to be used as is. Water along existing roads may be required for dust control. If production is established, roads would be upgraded to BLM standards.
3. Location of Existing and/or Proposed Facilities:
  - A. (1) There are no existing water wells. Refer to map "A"
  - (2) There are no abandoned wells. Refer to map "A"
  - (3) there are no temporary abandoned wells. Refer to map "A"
  - (4) There are no drilling wells. Refer fo map "A"
  - (5) There are no drilling wells. Refer to map "A"

Four "D" Oil Company  
Well #3  
Sec. 12, T20S, R23E

Location of Existing and/or Proposed Facilities (continued)

- (6) Adam's well on state land is a producing well located in Sec. 2, 990 ft. from the Federal 12-3 well in Sec. 12. Refer to map "A"
  - (7) There are not shut-in wells. Refer to map "A"
  - (8) There are no injection wells. Refer to map "A"
  - (9) There are no monitoring or observation well. Refer to map "A"
4. A. There are no existing facilities owned or operated by operator.
- B. (1) From well head to tank battery attendant lines will be flagged.  
(2) 250 ft. x 200 ft. layout attached.  
(3) Gravel, if needed, would be obtained from private sources.  
(4) INstall hog fence around all open pits.
- C. As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. When all drilling and production activities have been completed, the location site and access road will be reshaped to their original contour and stockpiled topsoil spread over the disturbed area. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4 ft. of cover. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee furthers covenants and agrees that a full cleanup program would be commenced within two weeks after rig completion or if well is plugged and abandoned.
5. Location and Type of Water Supply
- A. Water will be hauled from the Colorado River 15 miles to the Southeast.
  - B. Water will be trucked to the location. Roads shown on map "A".
  - C. Well will be drilled with air and air mist. No water well necessary.
6. Source of Construction Materials
- A. If needed, river gravel will be purchased from a private contractor.
  - B. If construction materials will come from Federal lands, a permit will be acquired.
  - D. Access roads already exist. No more are needed.

Four "D" Oil Company  
Well #3  
Sec. 12, T20S, R23E

7. Methods for Handling Waste Disposal

- (1) The cuttings will be buried and contained in the reserve pit and covered with a minimum of 4 ft. of earth material.
- (2) The drilling fluids will be buried and contained in the reserve pit and covered with a minimum of 4 ft. of earth material.
- (3) All produced oil from this well will be contained in storage tanks and then sold. Water, if any, which is produced will be run into a reserve pit as required in the NTL-2B regulations.
- (4) A portable chemical toilet will be supplied for human waste.
- (5) All trash and flammable materials will be burned in a burn pit. The pit will be fenced with small mesh wire to prevent wind from scattering trash before being burned. Noncombustible material will be hauled to a sanitary landfill.
- (6) Upon completion of drilling the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted.

8. Ancillary Facilities. No camp is required. No airstrip is required.

9. Well Site Layout

- (1) See plat of rig layout.
- (2) See plat of rig layout.
- (3) See plat of rig layout.
- (4) The pits are unlined.

10. Plans for Restoration of Surface

As there is some topsoil on the location site, all topsoil shall be stripped, stockpiled and windrowed. When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4 ft. of cover. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workman-like manner.

Four "D" Oil Company  
Well #3  
Sec. 12, T20S, R23E

11. Other Information

- (1) Topography is flat and desert-like, there is salt brush and other desert type grasses.
- (2) None
- (3) There are no archeological stipulations.

12. Lessee's or Operator's Representative

L.R. "Robbie" Robinson, 558 North 23rd St., Grand Junction, Colorado 81501,  
(303) 242-7006, Operator's representative.

13. Certification

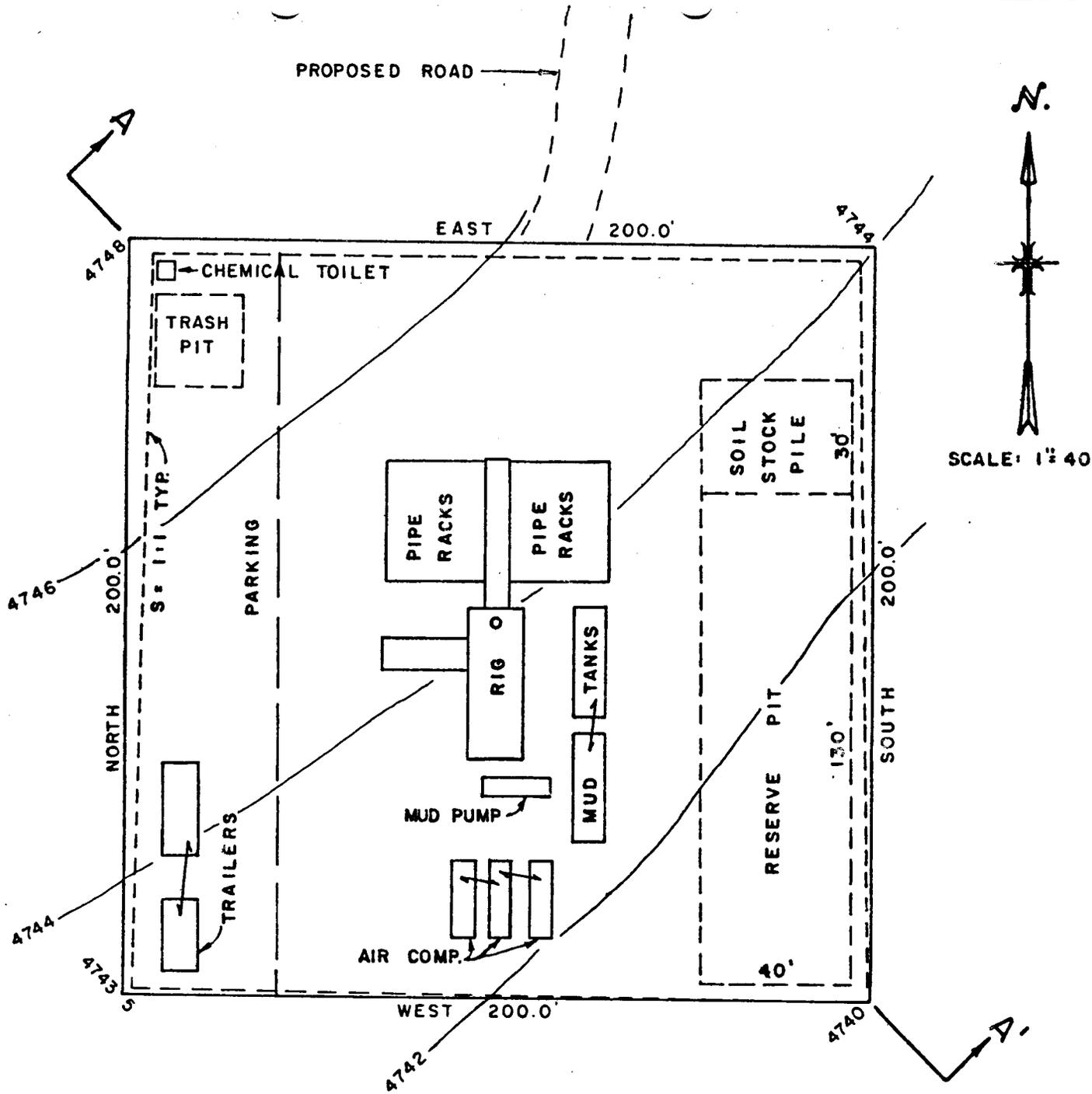
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated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

10-18-79  
Date

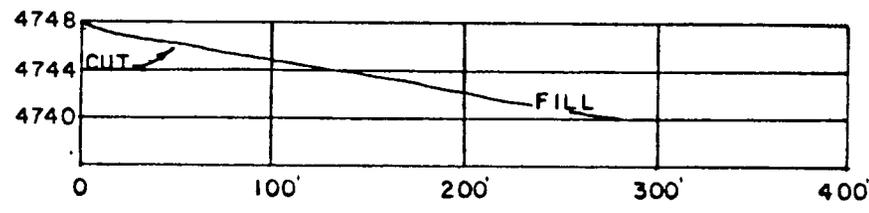
L. R. Robinson  
Name and Title

Four "D" Oil Company, c/o Daniel L. Schwetz, P.O. Box 2942, Grand Junction, Colorado 81502, trusts that the above drilling proposal together with maps, charts, and forms, will provide necessary information to grant permit and allow us to proceed on our well in Section 12, T20S, R23E, B.L.M. Land, Grand County, Utah.

L. R. Robinson  
Four "D" Oil Company  
By L.R. "Robbie" Robinson, Agent



SEC. 12, T 20 S R 23 E S.L.B. & M.



CROSS SECTION A-A'

SCALE: 1"=100'

DRAIN TO DANISH WASH

WESTERN ENGINEERS, INC.	
SITE LAYOUT	
4-D OIL COMPANY	
FEDERAL 12-3	
GRAND COUNTY, UTAH	
Surveyed D.L.B.	Drawn R.W.O.
Grand Junction, Colo.	9/28/79

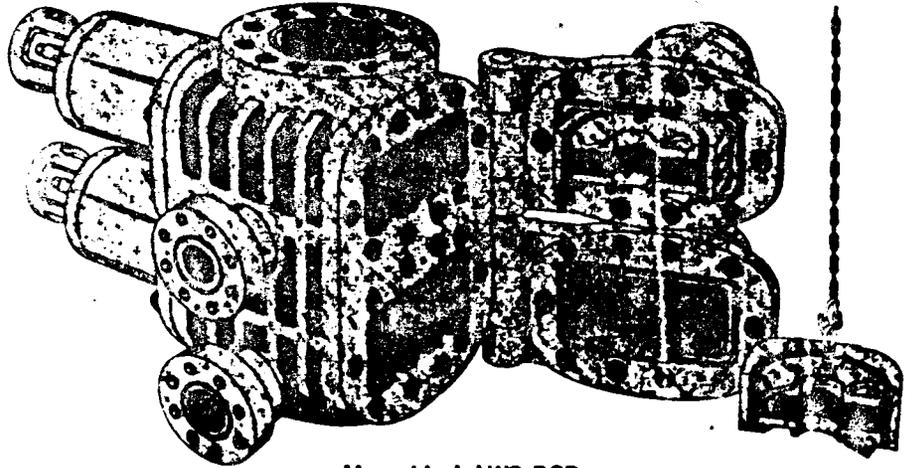
### MODEL LWS RAM BOP

Model LWS Blowout Preventers have been Shaffer's most successful ram-type preventers, and have met the demanding pressure control requirements of the drilling industry for nearly 20 years. Many of the features incorporated in the most advanced SL models are included in the LWS design.

External hydraulic manifold pipes conduct fluid between the hinges on all sizes except the 4 1/8" - 10,000 psi, 20 3/4" - 3,000 psi and 21 1/4" - 2,000 psi sizes.

The hydraulic closing pressure is below 1,500 psi with rated well pressure in the bore. Any standard 1,500 psi oil field accumulator system can be used to actuate these BOP's.

Secondary ram shaft seals are furnished on all LWS BOP's except 4 1/8" - 5,000 and 10,000



Manual-lock LWS BOP

psi; 7 1/8" - 5,000 psi; and 9" and 11" - 3,000 psi BOP's.

Lip-type ram shaft seals are used in all Model LWS BOP's.

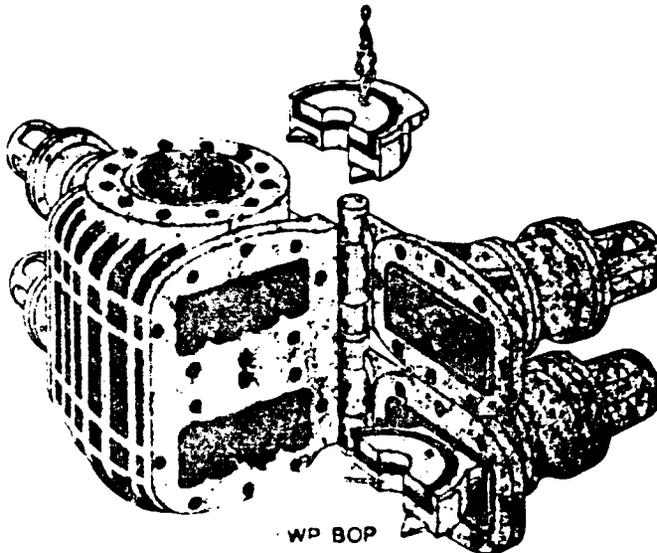
Rams are easily replaced. They slide horizontally onto the ram shaft, as shown above, except on the 4 1/8" - 10,000 psi

BOP where the ram mounts onto the ram shaft from above.

Poslock operators are available on the 20 3/4" - 3,000 psi and 21 1/4" - 2,000 psi LWS BOP's.

Manual-lock operators are available on all LWS BOP's.

### MODEL LWP RAM BOP



LWP BOP

LWP ram BOP's are available in 9" and 7-1/16" - 3,000 psi sizes and are designed for workover and well servicing operations. They have the same basic features as the LWS BOP's

The hydraulic closing pressure is below 1,000 psi with rated well pressure in the bore, but the heavy-duty cylinders allow any standard 1,500 psi oil field accumulator system to be used.

Less than one gallon of hydraulic fluid will close any LWP.

Hydraulic passages drilled through the body eliminate external manifold pipes between the hinges.

Lip-type ram shaft seals are furnished in LWP BOP's.

Ram mounts vertically onto ram shaft, as shown at left.

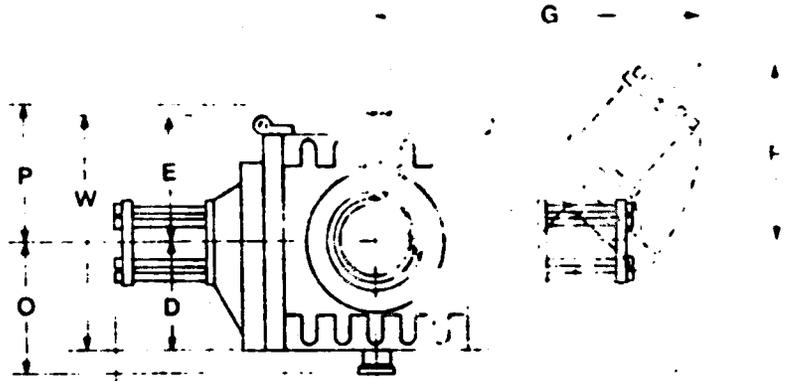
Manual-lock operators are furnished on all LWP BOP's.

Flanged 2-1/16" - 3,000 psi side outlets are available on the front and/or back (hinge) sides of the 9" LWP. No side outlets can be supplied on the 7-1/16"

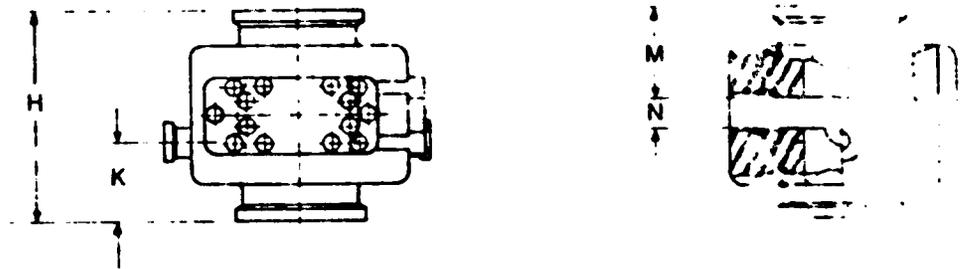
MODEL SL POSLOCK AND MANUAL-LOCK SPECIFICATIONS													
Working Pressure (psi)		15,000			10,000				5,000			3,000	
Bore (in.)		13 1/2	11	21 1/2	18 1/2	16 1/2	13 1/2	11	16 1/2	13 1/2	11 1/2	13 1/2	
Model		SL	SL	SL	SL	SL	SL	SL	SL	SL	SL	SL	
Pattern Size (in.)		14	14	14	14	14	14	14	10	14	10	10	
Poslock	L Length, in.	123	116	136 1/2	129 1/2	128	109 1/2	99	116 1/2	118	106	106	
	F (in.)	44 1/2	40	42 1/2	42 1/2	42 1/2	37 1/2	37 1/2	36 1/2	35 1/2	36		
	G (in.)	75 1/2	72	84 1/2	81	79 1/2	66 1/2	61 1/2	69 1/2	70 1/2	52 1/2	63	
Manual-Lock	L Length, in.	144	136			136 1/2	125 1/2	122 1/2	141		130 1/2	130 1/2	
	F (in.)	45	50 1/2			41 1/2	39	41	43 1/2		41 1/2	41 1/2	
	G (in.)	80 1/2	82 1/2			79	48 1/2	65	75 1/2		68 1/2	68 1/2	
W Width, in.		55 1/2	47 1/2	62 1/2	50 1/2	55 1/2	43	40 1/2	46 1/2	46 1/2	40	40	
H Height, in.	Single	Studded	33 1/2						23 1/2	25	25	17 1/2	17 1/2
		Flanged	59 1/2					49 1/2	41 1/2	42 1/2	42 1/2	32 1/2	32 1/2
		Hubbed				51 1/2		38 1/2	31 1/2	36	36	28 1/2	28 1/2
	Double	Studded	53 1/2	49 1/2		54 1/2	52 1/2	48	40 1/2	42 1/2	42 1/2	34	34
		Flanged	79 1/2			82 1/2		64 1/2	58 1/2	60 1/2	60 1/2	49 1/2	49 1/2
		Hubbed			73 1/2	69 1/2	67 1/2	56 1/2	49 1/2	53 1/2	53 1/2	45 1/2	45 1/2
Triple	Studded			92 1/2	108 1/2								
	Hubbed						94 1/2						
D (in.)		25	22 1/2	29 1/2	27 1/2	25 1/2	20 1/2	17 1/2	21 1/2	21 1/2	17	19 1/2	
E (in.)		30 1/2	27 1/2	33 1/2	23 1/2	30 1/2	22 1/2	23 1/2	25 1/2	25 1/2	23	21 1/2	
F (in.)		19 1/2	18 1/2	19 1/2	19 1/2	19 1/2	18	17 1/2	17 1/2	17 1/2	16 1/2	16 1/2	
G (in.)		11 1/4	11	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	12 1/2	12 1/2	12 1/2	12 1/2	
H (in.)	Single	Studded	16 1/2	9 1/2					8 1/2	8 1/2	12 1/2	4 1/2	8 1/2
		Flanged	29 1/2					17 1/2	15 1/2	21 1/2	21 1/2	12	16 1/2
		Hubbed				18 1/2		13 1/2	10 1/2	11 1/2	18	10	14 1/2
	Double	Studded	16 1/2	9 1/2			10 1/2	8 1/2	6 1/2	6 1/2	12 1/2	4 1/2	8 1/2
		Flanged	29 1/2					17 1/2	15 1/2	21 1/2	21 1/2	12	16 1/2
		Hubbed			20 1/2	18 1/2	17 1/2	13 1/2	10 1/2	11 1/2	18	10	14 1/2
Triple	Studded												
	Hubbed			20 1/2	19 1/2								
H (in.)	Single	Studded	12 1/2	11 1/2					8 1/2	9 1/2	9 1/2	6 1/2	6 1/2
		Flanged	25 1/2					26 1/2	17 1/2	18 1/2	18 1/2	14	14
		Hubbed				21 1/2		16	12 1/2	15 1/2	15 1/2	12	12
	Double	Studded	12 1/2	11 1/2			12 1/2	10 1/2	8 1/2	9 1/2	9 1/2	6 1/2	6 1/2
		Flanged	25 1/2					20 1/2	17 1/2	18 1/2	18 1/2	14	14
		Hubbed			23	20 1/2	20 1/2	16	12 1/2	15 1/2	15 1/2	12	12
Triple	Studded												
	Hubbed			23	21 1/2								
D (in.)	2-inch		7 1/2	8	8	8	8 1/2	6	5 1/2	5 1/2	4 1/2	4 1/2	
	3-inch		26 1/2										
	4-inch	31 1/2	27 1/2	32 1/2	29 1/2	29 1/2	25 1/2	25 1/2	28	28	21 1/2	21 1/2	
D (in.)	2-inch		26 1/2										
	3-inch		27 1/2	31 1/2	29	29 1/2	25 1/2	25 1/2	28	28	21 1/2	21 1/2	
	4-inch	31 1/2	27 1/2				29 1/2						
Weight (lbs.) Without Rams	Single	Studded	25,000						9,690	13,552	13,790	7,235	7,075
		Flanged	29,500					10,400	11,344	15,386	15,630	8,630	13,591
		Hubbed						10,100	10,243	14,710	14,950	8,540	13,190
	Double	Studded	42,800			45,146	37,650	22,590	19,320	26,246	26,730	17,475	19,075
		Flanged	47,300			51,216		24,950	20,964	21,780	28,560	18,930	17,530
		Hubbed			51,600	47,300	40,000	23,900	19,873	27,403	27,990	18,780	17,370
Rams, With Holders (2 each)		1,055	1,040	1,278	1,075	878	900	295	840	540	540	320	
Door Assembly (1 each)		3,800	3,600	3,500	3,500	3,080	2,200	2,700	3,150	3,270	2,120	2,310	
Weight (lbs.) Break Down	Single	Studded	17,400						4,290	7,253	7,253	2,995	2,995
		Flanged	21,900					6,800	5,934	9,087	9,087	4,430	4,430
		Hubbed						5,780	4,843	8,410	8,410	4,300	4,300
	Double	Studded	27,600			34,146	25,630	13,790	8,520	13,646	13,846	8,595	8,995
		Flanged	32,100			37,213		16,180	10,164	15,480	15,480	10,450	10,450
		Hubbed			37,600	33,000	28,000	15,000	9,873	14,803	14,803	10,300	10,300
Body													
Rams													
Door Assembly													
Rams, With Holders													
Door Assembly													
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RAM-TYPE BOP SPECIFICATIONS

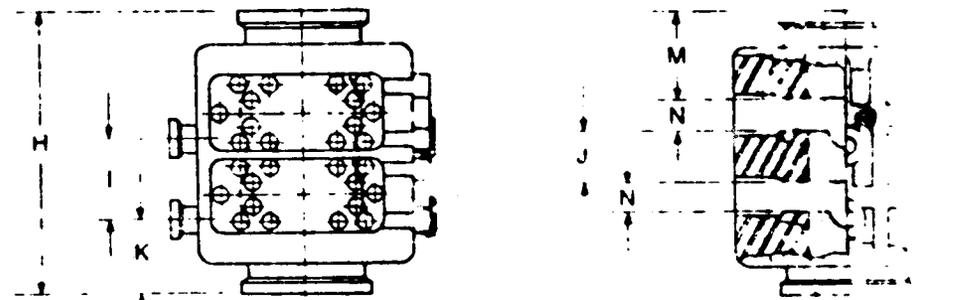
DIMENSION DRAWINGS



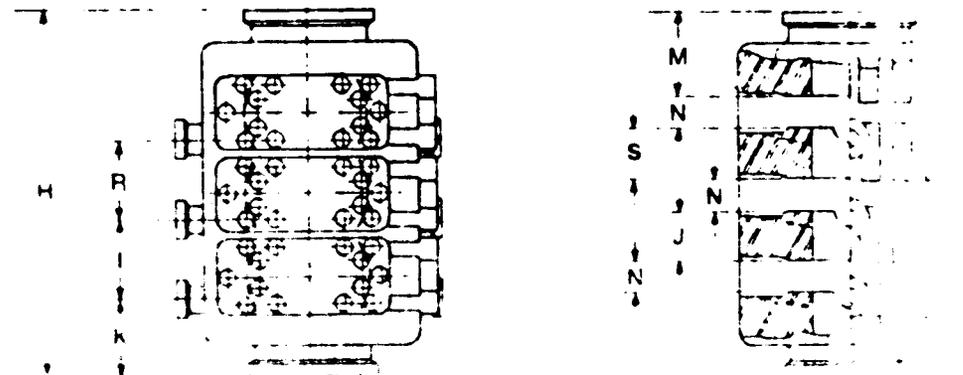
SINGLE



DOUBLE



TRIPLE



## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: *SALT LAKE CITY, UTAH*  
SERIAL NO.: *U-15049*

and hereby designates

NAME: *DANIEL L. SCHWETZ d/b/a FOUR "O" OIL COMPANY*  
ADDRESS: *P.O. BOX 1361*  
*DURANGO, Colorado 81301*

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

*GRAND CO., UTAH*  
*T. 20S, R. 23E., 5L MER*  
*SEC. 12, N<sup>1</sup>/<sub>2</sub>N<sup>1</sup>/<sub>2</sub>, SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub>*  
*SEC. 24, SW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub>, SE<sup>1</sup>/<sub>4</sub>*  
*T 20S, R 24E., 5L MER*  
*SEC. 6, 10TS 4, 5*

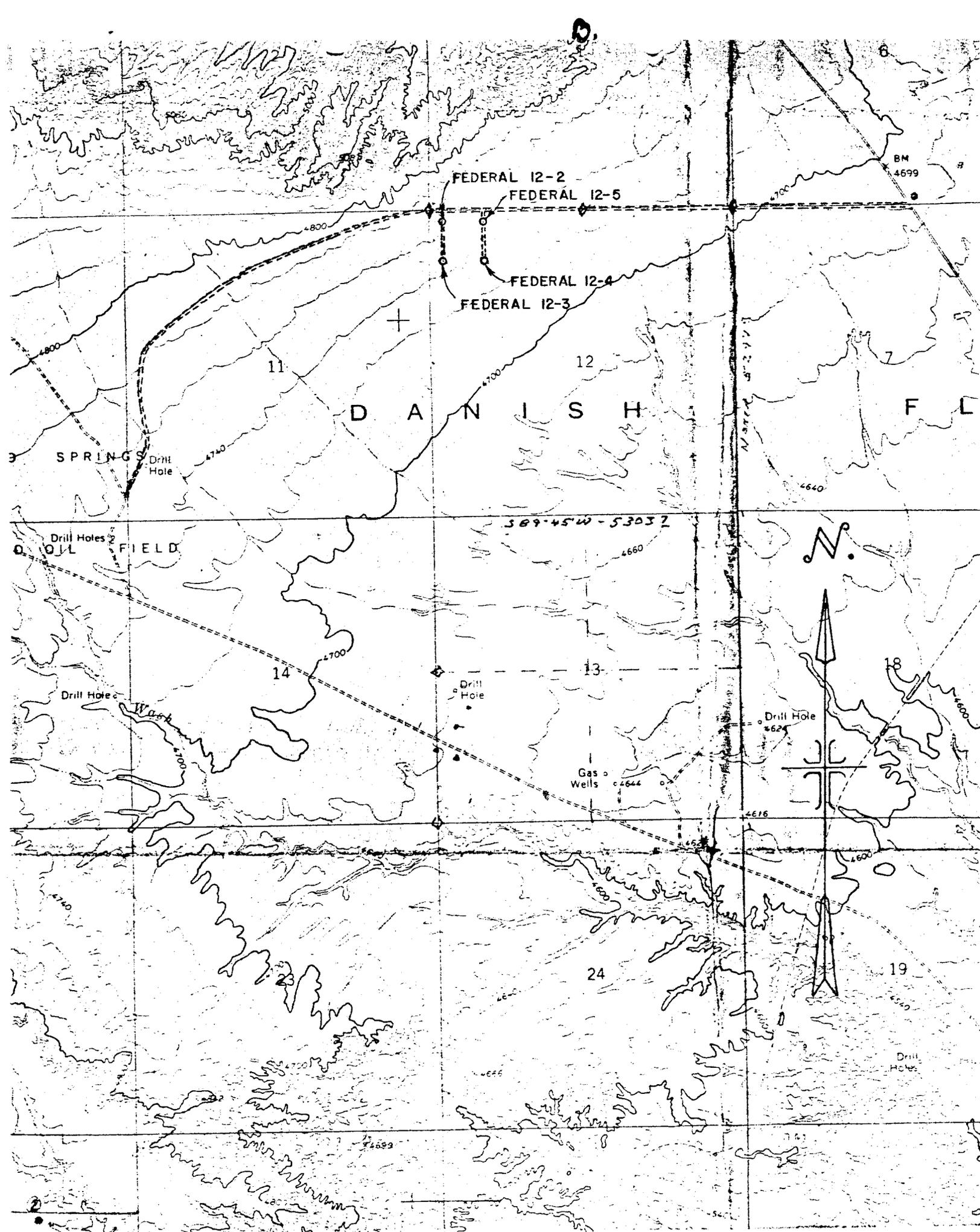
It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

*ARL-MEX OIL & EXPLORATION, INC.*  
*Billy D. Baggett* President  
(Signature of lessee)  
*P.O. BOX 249, MAAB, UTAH 84532*  
(Address)

*Sept 23, 1979*  
(Date)



FEDERAL 12-3

: DISTRICT ENGINEER, O&G, SAI LAKE CITY, UTAH

Y: APD MINERAL EVALUATION REPORT

LEASE NO. U-15049

OR: Four "D" Oil Company

WELL NO. Fed 12-3

ON: 1/4 NW 1/4 NW 1/4 sec. 17, T. 20 S, R. 23 E, SLM.

Grand County, Utah

atigraphy: Upper Mancos - surface

Dakota 1800 (+2960)

Cedar Mtn 1900 (+2850)

Morrison 2000 (+2760)

Entrada 2300 (+2460)

sh Water: Fresh water may be present in sand lenses of the Mancos.

sable Minerals: Valuable prospectively for coal in the Dakota  
Coal is thin, lenticular and sub-commercial.

ditional Logs Needed: Resistivity, Gamma Ray, Compensated formation Density,  
and Neutron Density logs should be run at least through  
the coal bearing zones (1400 - 2000)'

ential Geologic Hazards: None anticipated

erences and Remarks: U.S.G.S. map I-736  
1 mile N. of Cisco Springs, KGS.

ture: J. Paul Matheny Date: 11 - 5 - 79

United States Department of the Interior  
Geological Survey  
8440 Federal Building  
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-15049  
Operator Four "D" Oil Company Well No. Fed. 12-3  
Location 990' FNL 500' EWL Sec. 12 T. 20S R. 23E  
County Grand State Utah Field Danish Wash  
Status: Surface Ownership Public Minerals Federal  
Joint Field Inspection Date November 14, 1979

Participants and Organizations:

<u>Bob Kershaw</u>	<u>Bureau of Land Management</u>
<u>Glenn Doyle</u>	<u>U. S. Geological Survey</u>
<u>Dean Schwetz</u>	<u>Operator</u>
<u>L. R. Robinson</u>	<u>Operator</u>
<u>Mr. Johnson</u>	<u>Dirt Contractor</u>

Related Environmental Analyses and References:

Book Mountain Planning Unit Resource Analysis  
Bureau of Land Management, Utah

Analysis Prepared by: Glenn M. Doyle, Environmental Scientist  
Grand Junction

Date November 27, 1979

*mitigator p. 6  
(1-6)*

*moved loc to 990 FNL, 500 EWL  
access road changed  
200' x 200' pit  
40' x 150' pit  
300' x 18' access  
8" topsoil stockpiled  
Noted - G. Diwachak  
will reexcavate pit 30' N*

Proposed Action:

On October 23, 1979, Four "D" Oil Company filed an Application for Permit to Drill the No. 12-3 development well, a 2500' oil test of the Salt Wash Formation and the Entrada Sandstone; located at an elevation of 4744' in the NW/4, NW/4, Sec. 12, T20S, R23E on Federal mineral lands and public surface; lease No. U-15049.

There was no objection raised to the wellsite; however, it was moved by the operator in order to comply with the State of Utah spacing regulations. The wellsite was moved to 990' SNL and 500' EWL. The ~~1/4~~ coordinates did not change as a result of this move. As an objection was raised to the access road, it was changed. See rig layout diagram for new access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Freshwater sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the U.S.G.S. District Office in Salt Lake City, Utah, and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City, Utah.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 200' wide x 200' long and a reserve pit 40' x 130'. A new access road would be constructed 16' wide x approximately 300' long from the already existing 12-2 wellsite.

The operator proposes to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for production facilities would be submitted to the appropriate agencies for approval. The anticipated starting date is December 1979 and duration of drilling activities would be about ten days.

Location and Natural Setting:

The proposed drillsite is approximately 35 miles NE of Cisco, Utah, the nearest town. A fair road runs to within 500' of the location. This well is in the Danish Wash field.

Topography:

The wellsite is located on flat desert terrain with slopes of less than 2%.

Geology:

The surface geology is Mancos shale. The soil is a sandy-clay. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep into the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The topsoils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinyon-juniper association is also present.

Eight inches of topsoil would be removed from the surface and stockpiled on the SE corner of the drillsite away from the reserve pit. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately two acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated. However, if H<sub>2</sub>S of any other toxic substances are encountered, the USGS should be notified immediately.

Precipitation:

Annual rainfall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rainstorms. This type of storm is rather uncommon as the annual precipitation is around 8".

Winds are medium and gusty, occurring predominantly from southwest to northeast. Air mass inversions are rare. The climate is semiarid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The proposed location lies on a flat desert plain interlaced with a few small, intermittent dry washes. No major drainages cross or bound the wellsite. Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean up all spills or leaks.

### Groundwater Hydrology:

Some minor pollution of groundwater systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination, and commingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of freshwater formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

### Vegetation:

Plants in the area are of the salt-desert shrub types including four-wing saltbush, sagebrush, rabbitbrush and grasses.

Proposed action would remove about two acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations. Rehabilitation would be in accordance with BLM recommendations.

### Wildlife:

Animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays. ←

### Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project. All permanent facilities placed on the location

would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads.

The overall effect of oil and gas drilling and production activity is significant in Grand County but it is difficult to assess the environmental impact of a single well on state and/or national levels. However, if said well was to produce in sufficient quantity, additional development wells might be anticipated. This additional development, in turn, would lead to greater environmental and socioeconomic consequences.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

#### Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. To allow for the stockpiling of topsoil on the SE corner of the pad, the reserve pit should be moved 30' to the north. The operator agreed to this at the onsite inspection. A covered trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternatives to the Proposed Action:

1) Not Approving the Proposed Permit--The Oil and Gas Lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies' supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration.

2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Proposed Supplemental Conditions of Approval:

- 1) Operator will construct a new access road 16' wide x approximately 300' long, originating from the west edge of the already constructed #12-2 location. This location is on-lease.
- 2) Operator will fence reserve pit on three sides prior to drilling and during drilling activities, and on four sides once the rig has moved off.
- 3) Operator will move location to comply with the State of Utah spacing requirements.
- 4) 8" of topsoil will be stockpiled on the SE corner of the wellsite, away from the reserve pit.
- 5) The reserve pit would be moved 30' to the north to allow for stockpiling of topsoil on the SE corner of the pad.
- 6) Operator will maintain the blooie line at least 125' from the wellhead and direct it into an approved pit.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately two acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated

in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to freshwater aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution would exist through leaks and spills.

If well is a producer, other development wells would be anticipated with substantially greater environmental and economic impacts.

---

Determination:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102(2)(C).

DEC 12 1979  
Date

*W.P. Martin*  
ACTING  
District Engineer  
U. S. Geological Survey  
Conservation Division  
Oil and Gas Operations  
Salt Lake City District

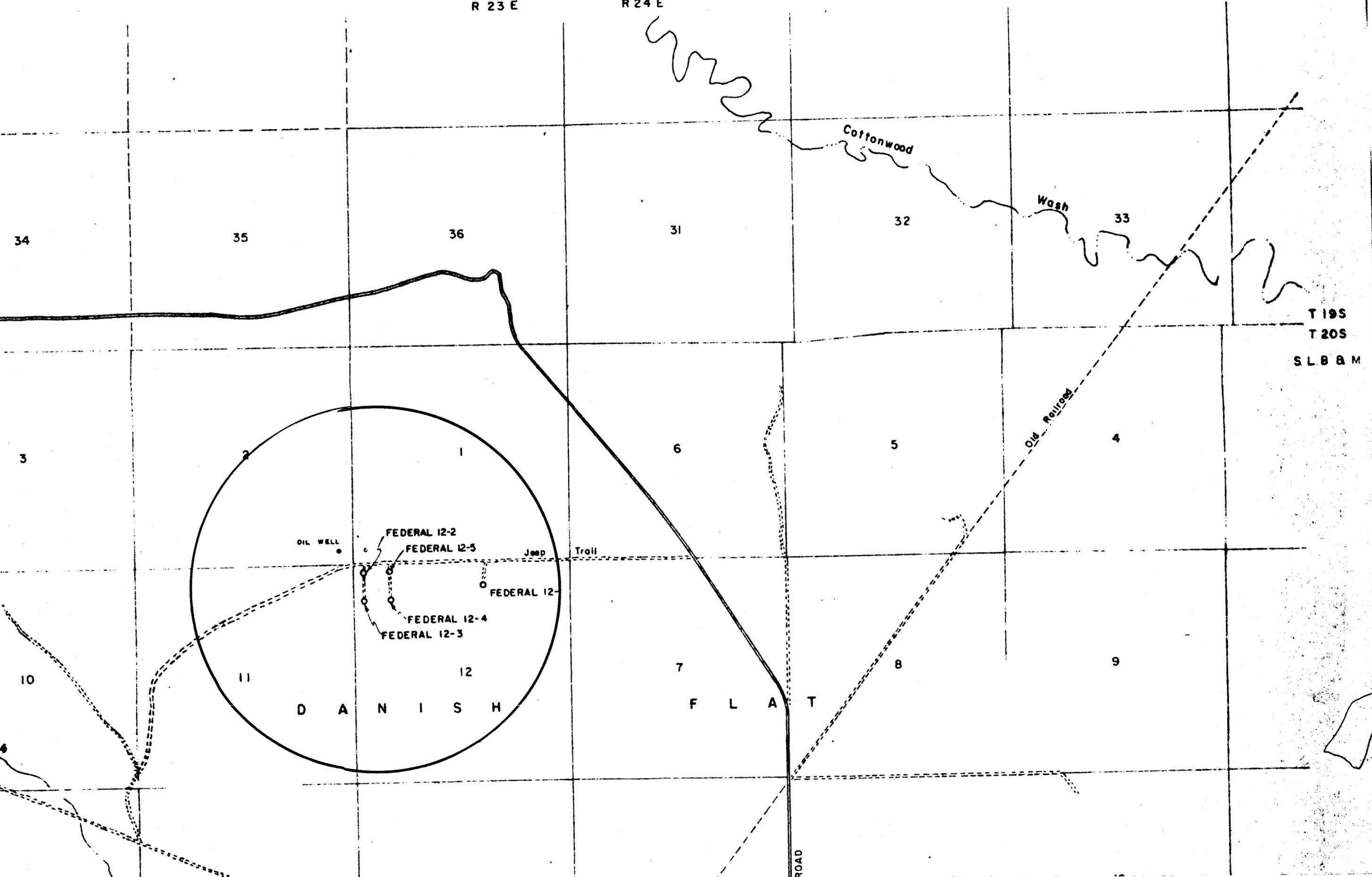
MAP "A"

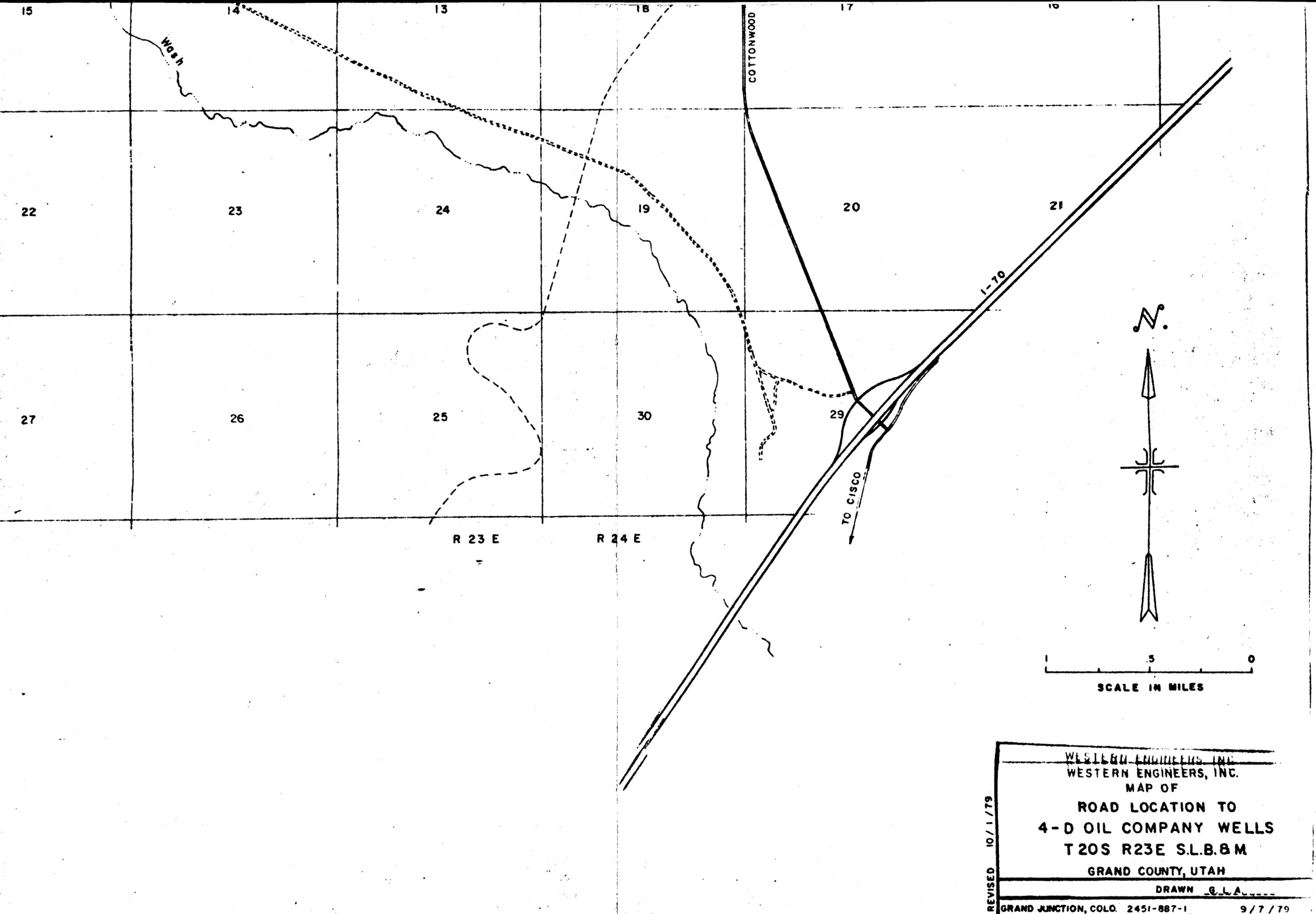
S. L. B. & M.

R 23 E

R 24 E

T 19S  
T 20S  
S. L. B. & M.





REVISED 10/1/79

WESTERN ENGINEERS, INC.  
 WESTERN ENGINEERS, INC.  
 MAP OF  
 ROAD LOCATION TO  
 4-D OIL COMPANY WELLS  
 T20S R23E S.L.B. & M  
 GRAND COUNTY, UTAH  
 DRAWN G.L.A.  
 GRAND JUNCTION, COLO. 2451-887-1 9/7/79

Pete - Thriftway Co.

Dakota - Cedar Mtn Morrison

505-327-5156

(1700 - 2100)

\*\* FILE NOTATIONS \*\*

DATE: October 25, 1979

Operator: Four "D" Oil Company

Well No: Federal 12-3

Location: Sec. 12 T. 205 R. 23E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-019-30601

CHECKED BY:

Geological Engineer: \_\_\_\_\_

\_\_\_\_\_

Petroleum Engineer: \_\_\_\_\_

\_\_\_\_\_

Director: \_\_\_\_\_

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 102-16B 11/15/79

O.K. Rule C-3

Rule C-3(c), Topographic Exception/company owns or controls acreage within a 660' radius of proposed site

Lease Designation Fed

Plotted on Map

Approval Letter Written

*ktm*

✓

#3

hc

January 28, 1980

Four D Oil Company  
P.O. Box 2942  
Grand Junction, Colorado 81501

Re: Well No. Federal 12-1, Sec. 12, T. 20S, R. 23E., Grand County, Utah  
~~Well No. Federal 12-3, Sec. 12, T. 20S, R. 23E., Grand County, Utah~~  
Well No. Federal 12-4, Sec. 12, T. 20S, R. 23E., Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil wells is hereby granted in accordance with the Order issued in Cause No. 102-168 dated November 15, 1979.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER  
Geological Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is #12-1 - 43-019-30600;  
#12-3 - 43-019-30601; #12-4 - 43-019-30602 .

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Geological Engineer

/btm

cc: USGS

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Four "D" Oil Company

WELL NAME: Federal #12-3

SECTION 12 NW NW TOWNSHIP 20S RANGE 23E COUNTY Grand

DRILLING CONTRACTOR Starner Drilling Company

RIG # S-3

SPUDDED: DATE 1/10/80

TIME \_\_\_\_\_

How rotary

DRILLING WILL COMMENCE presently

REPORTED BY Dean Schwetz (Durango)

TELEPHONE # 303-247-8291

DATE February 12, 1980

SIGNED \_\_\_\_\_

Original Signed By M. T. Minder

cc: USGS

March 11, 1980

Four D oil Co.  
P.O. Box 2942  
Grand Junction, Colorado 81501

Re: Well No. Federal 12-3  
Sec. 12, T. 20S, R. 23E.  
Grand County, Utah  
January-February 1980

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING



JANICE TABISH  
CLERK TYPIST

April 8, 1980

Four D Oil Co.  
P.O. Box 2942  
Grand Junction, Colorado 81501

Re: Well No. Federal 12-3  
Sec. 12, T. 20S, R. 23E.  
Grand County, Utah  
Months Due: January-March 1980  
SECOND NOTICE

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

JANICE TABISH  
CLERK TYPIST

*Working on Completion  
talked with Dan ~~Scott~~  
Schumetz*

*5-6-80*

*Florida #*

*1-305-368-234*

*Send Correspondence to Sand Inc.  
+ P.O. Box 1361 Durango Col.  
81301*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-15049
2. NAME OF OPERATOR Thriftway Refining		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----
3. ADDRESS OF OPERATOR P. O. Box 1367, Farmington, NM 87401		7. UNIT AGREEMENT NAME -----
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  990 FNL, 500 FWL		8. FARM OR LEASE NAME -----
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4654 GR	9. WELL NO. Federal 12-3
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12, T20S, R23E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____
(Other) _____		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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.)\*

T. D. 2330  
Casing: 8 5/8 at 169; 4 1/2" at 2330; Top cement 1545 - Perfs 2175 to 2190 w/ 10 holes - wet. Plugged back to 2149 w/ CIBP. Perfs 1697 to 1715 w/ 10 holes - Wet.

- Propose:
- 1) Fill hole w/ 9 lb 60 to 80 vis mud
  - 2) Place cement plug from 1550 to 1750 with 20 sks.
  - 3) Pull tubing
  - 4) Cut off casing at 1530 and pull
  - 5) Place cement plug from 1400 to 1600 with 40 sacks
  - 6) Place cement plug from 120 to 220 w/ 20 sacks
  - 7) Place 10 sacks surface plug and erect regulation marker
  - 8) Clean up and rehabilitate location

TOPS  
Dakota 1695  
Morrison 1908  
Salt Wash 2122

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

SIGNED J. H. Buckholtz TITLE Consulting Engineer DATE 9-17-80

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE FOR E. W. GUYNN DISTRICT ENGINEER DATE SEP 22 1980

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-15049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Thriftway Refining

3. ADDRESS OF OPERATOR  
P. O. Box 1367, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

990 FNL, 500 FWL

14. PERMIT NO.

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

4654 GR

UNIT AGREEMENT NAME

8. FORM OR LEASE NAME

9. WELL NO.

Federal 12-3

10. FIELD AND POOL, OR WILDCAT  
Wildcat

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

Sec. 12, T20S,  
R23E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

T. D. 2330

Casing: 8 5/8" at 169; 4 1/2" at 2330; Top cement 1545 - Perfs 2175 to 2190 w/ 10 holes - wet. Plugged back to 2149 w/ CIBP. Perfs 1697 to 1715 w/ 10 holes - Wet.

Propose:

- 1) Fill hole w/ 9 lb 60 to 80 vis mud
- 2) Place cement plug from 1550 to 1750 with 20 sks.
- 3) Pull tubing
- 4) Cut off casing at 1530 and pull
- 5) Place cement plug from 1400 to 1600 with 40 sacks
- 6) Place cement plug from 120 to 220 w/ 20 sacks
- 7) Place 10 sacks surface plug and erect regulation marker
- 8) Clean up and rehabilitate location

TOPS

Dakota 1695  
Morrison 1908  
Salt Wash 2122

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE 10-17-80

BY M. J. Munder

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

SIGNED J. H. Burkhardt

TITLE Consulting Engineer

DATE 9-17-80

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

Topner

Lomat - Duch

~~1-36 state~~

~~1-<sup>32</sup> state 32 85 17E~~

~~12-24 castle peak 5 ed 29 95/6E~~

---

Drilled?

~~7 brtks 12-20S 23E~~

12-17 ed.

~~43-019-30600~~

---

7 brtks 40. we.

12-37 ed

12-20S 23E.

July 10, 1981

Thrifty Refining  
P. O. Box 1367  
Farmington, New Mexico 87401

Re: Well No. Federal 12-3  
Sec. 12, T. 20S, R. 23E  
Grand County, Utah

Gentlemen:

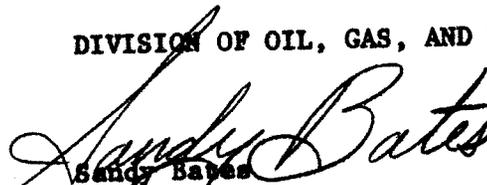
This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

  
Sandy Bates  
Clerk-Typist

/lm  
Enclosures

No Logs

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

U-15049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other Plug and Abandon

UNIT AGREEMENT NAME

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other

FARM OR LEASE NAME

2. NAME OF OPERATOR

Thriftway Co. (was Four D Co.)

3. ADDRESS OF OPERATOR

Post Office Box 1367, Farmington, NM 87401

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

At surface 990 FNLB 800 PWL NWNW

DIVISION OF OIL, GAS & MINING

At top prod. interval reported below

At total depth 2,330

9. WELL NO.

Federal 12-3

10. FIELD AND POOL, OR WILDCAT

Danish Flats

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 12, T 20 S

R 23 E 990' SNL - 500' EWL

12. COUNTY OR PARISH

Grand

13. STATE

Utah

14. PERMIT NO.

43-019-30601

DATE ISSUED

1-22-80

15. DATE SPUDDED

9-9-80

16. DATE T.D. REACHED

9-17-80

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

4654 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

2330'

21. PLUG, BACK T.D., MD & TVD

P & A

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

31. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8		169'	4 1/2	See Attached	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
		<u>PSA</u>					
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Plugging Program

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Bernard R. Preston Jr. TITLE Vice President

DATE 8/20/81

\*(See Instructions and Spaces for Additional Data on Reverse Side)