

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

Sundance Oil Co. ✓

3. ADDRESS OF OPERATOR

Drawer I, Artesia, N.M. 88210

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

At surface

1980 From South Line, 660 From West Line

At proposed prod. zone

Miss.

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

20 miles northeast of Hagerman, N.M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1980/S 660/W

18. DISTANCE FROM PROPOSED LOCATION*

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

4 mi.

16. NO. OF ACRES IN LEASE

520

19. PROPOSED DEPTH

10,000

17. NO. OF ACRES ASSIGNED
TO THIS WELL

300 40

20. ROTARY OR CABLE TOOLS

Rotary

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

3808.7'GL

22. APPROX. DATE WORK WILL START*

On Approval

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/4	13 3/8	54.50	300	325ex
12 1/4	8 5/8	280	2400	1025ex
7 7/8	5 1/2 or 4 1/2	170 or 11.60	10,000	

Cement on long string to be determined if production
is encountered. All zones of value will be either
tested or logged to evaluate.

RECEIVED RECEIVED

SEP 30 1975

SEP 17 1975

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICOO. C. C.
ARTESIA, OFFICE

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

W. H. Morgan

TITLE

Supt. Permian Basin Area

DATE

9-16-75

PERMIT NO.

SUBJECT TO ATTACHED DEEP WELL CONTROL
REQUIREMENTS DATED JUN 22 1973

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED
SEP 21 1975
H. C. BEEKWILL
ACTING DISTRICT ENGINEER

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
See Instructions On Reverse Side
EXPIRES DEC 29 1975

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

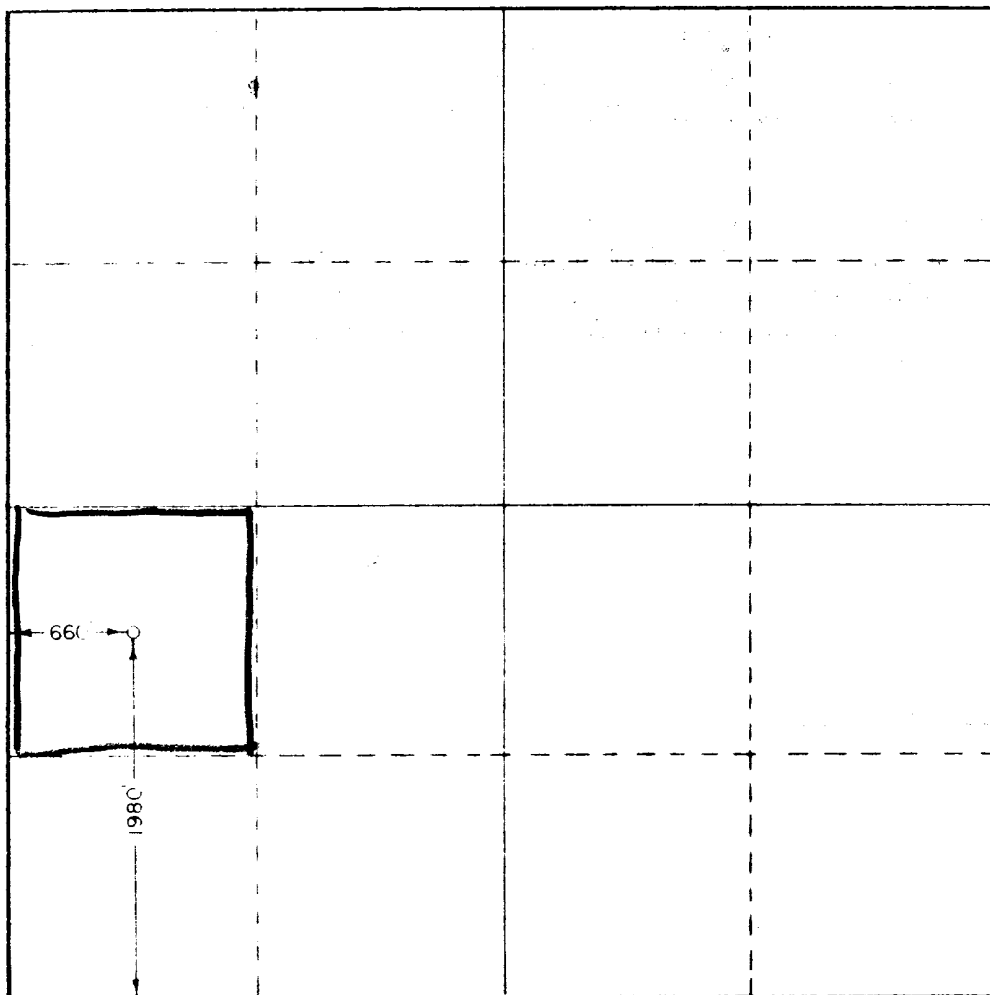
Sundance Oil Company			Lease Federal Sun Federal		Well No. 1
Section L	Section 1	Township 13 South	Range 29 East	County Chaves	
Location of Well: 1980 feet from the South line and 660 feet from the West line					
Ground Area: 3808.7	Producing Formation: Niss.	Pool: Wildcat	Dedicated Acreage: 40 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 Commission.



CERTIFICATION

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

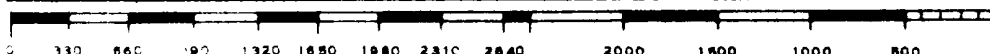
M. N. Morgan
Name
Supt. Permian Basin Area
Position
Sundance Oil Co.
Company

Date **9-16-75**

RECEIVED

I hereby certify that the well location shown on this plat was plotted from field notes **SEP 17 1975** actual surveys made by me or under my supervision, and that the same are true and correct to the best of my knowledge and belief.

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO
Date **August 22, 1976**
Registered Professional Engineer and Surveyor **676**
Certificate No. **W. WE 976**



SUNDANCE OIL COMPANY
Drawer I
Artesia, New Mexico 88210

DEVELOPMENT PLAN FOR SURFACE USE

UNITED STATES GEOLOGICAL SURVEY

PERMIAN BASIN AREA

Date 9-16-75

Well Sun Federal #1 Location Sec 1 Twn 13 R29

1. Existing roads including location of the exit from the main highway.
(see attached form)
2. Planned access roads (see attached form)
3. Location of existing wells King Camp #1 22-13-29, Sohio Monterey #1
27-12-30, FAF & King Camp #1 14-29
4. Lateral roads to well location No lateral roads will be built
unless production is encountered.
5. Location of tank batteries and flow lines Battery will be on
southeast corner of location if production is found.
6. Location and type of water supply (rivers, creeks, lakes, ponds, well, etc.)
There is no available water in this area. All water
will have to be hauled in.
7. Methods for handling waste disposal If waste water becomes a
factor, because of production, it will be hauled to a
disposal area.
8. Location of camps no camps
9. Location of airstrips no airstrips

10. Location of layout to include position of the rig, mud tanks, reserve pits, burn pits, pipe racks, etc., _____

_____ see attached plat _____

11. Plans for restoration of the surface _____

_____ Should not be necessary. _____

12. Any other information that may be used in evaluating the impact on environment. Include general description of the topography, vegetation, and other aspects of the area.

_____ The area of this well is sand dunes with scruboak, _____

_____ beargrass, and very sparse vegetation. _____

Company _____ Sundance Oil Co. _____

Representative M. N. Morgan

Phone: Ofc. _____ 748-1266 _____ Home _____ 748-2325 _____

Address _____ P.O. Drawer I _____

_____ Artesia, New Mexico 88210 _____

1. (existing roads)

The existing road closest to this location, comes from Brook Tank in 31-13-30, which is not shown on the maps. This road winds around through 13-30 and you can get into the bottom half of 12-13-29. We would have to build about $1\frac{1}{2}$ miles of new road and repair and rebuild about 10 miles of old road.

2. (planned access roads)

We would like to use a road built by Amoco and others, that enters off Hagerman Highway in south east corner of 34-14-29, goes north as shown on the map some 5 miles and at that point intersects old road to Brooks ranch house and tank. Not shown on map is a new road built north to 22-13-29 to a well drilled by Amoco called King Camp #1. We will follow an old trail in section 22, northeast to about the top half of section 11. There we will have to set a cattle guard in fence and go due north up section line to old trail running east and west. We would then turn due east to location. I went in with surveyors, and also flew over the area. It will require approximately $3\frac{1}{2}$ miles of new road, built with caliche, $3\frac{1}{2}$ miles long, 12' wide with turn outs to pass.



August 28, 1975

Sundance Oil Company
Booker Building
Artesia, New Mexico 88210

ATTENTION: Bill Morgan

Dear Mr. Morgan,

Thank you for the opportunity to submit our proposed mud program for your Chaves County Prospect, Section 1-13-29, Chaves County, New Mexico.

If we can be of further assistance, please do not hesitate to call on us.

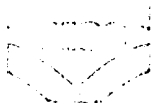
Yours truly,

IMCO SERVICES

John Dean
District Manager
Hobbs, New Mexico

JD/ks

IMCO SERVICES



INFO SERVICES
A Division of HALLIBURTON Company
2400 West Loop South, P. O. Box 22606
Houston, Texas 77027 A/C 713 822-5865

COMPANY Sundance Oil Company WELL _____
FIELD _____ LOCATION Sec. 1-13-29
COUNTY Chaves County STATE New Mexico

PROPOSED MUD PROGRAM

CASING PROGRAM:

300' of 13-3/8" Surface

2350' of 8-5/8" Intermediate

4-1/2" Production to Total Depth

SUGGESTED MUD PROPERTIES

<u>DEPTH (FEET)</u>	<u>MUD WEIGHT (PPG)</u>	<u>VISCOSITY (SEC)</u>	<u>FLUID LOSS (ML)</u>
100	8.4	34-36	No Control
275	8.5	34-36	No Control
Set 13-3/8" Surface and drill out with fresh water.			
400	9.0	31-32	No Control
800	9.4	31-32	No Control
1,500	10.0	31-32	No Control
2,400	10.0-10.1	31-32	No Control
Set 8-5/8" Intermediate Casing and drill out with fresh water.			
2,500	8.4-8.5	28	No Control
3,500	8.4-8.5	28	No Control
4,500	8.4-8.5	28	No Control
5,500	8.4-8.5	28	No Control
6,000	8.7-8.8	34-36	No Control
7,100	8.7-8.8	34-36	No Control
8,200	8.8-9.0	34-36	No Control
8,800	9.0-9.2	36-40	15-20
9,200	9.0-9.2	36-40	15-20
9,500	9.0-9.2	36-40	15-20



IMCO SERVICES
A Division of HALLIBURTON Company
2400 West Loop South, P. O. Box 22806
Houston, Texas 77027 A/C 713 622-5685

COMPANY Sundance Oil Company WELL _____
FIELD _____ LOCATION Sec. 1-13-29
COUNTY Chaves County STATE New Mexico

PROPOSED MUD PROGRAM

SUGGESTED MUD PROPERTIES

<u>DEPTH (FEET)</u>	<u>MUD WEIGHT (PPG)</u>	<u>VISCOSITY (SEC)</u>	<u>FLUID LOSS (ML)</u>
10,000	9.0-9.2	36-40	8-10
10,500	9.0-9.2	36-40	8-10

SUGGESTED MUD PROGRAM BY CASING INTERVAL

SURFACE 0'- 300'

No problems are anticipated through this interval. Spud with an IMCO Gel/Lime slurry having a viscosity of 34-36 sec. This fluid should be sufficient to safely drill and insure casing operations.

INTERMEDIATE 300'- 2350'

Drill from under surface casing with fresh water, utilizing native solids for a 31-32 sec. viscosity. No loss of fluid is anticipated providing mud weight is held below 10.2 ppg. The use of IMCO Paper will be beneficial in reducing the filter cake through this interval. A fluid with these properties should be adequate to approximately 2,300' at which time hole stability will dictate the need for raising of the viscosity and the reduction of water loss to insure the safe running of intermediate casing.

OPEN HOLE 2350'- Total Depth

Drill from under intermediate casing with fresh water circulating the reserve pit and employing the use of a flocculating agent to minimize solids build-up. Maintain this fluid to approximately 6000'.

At an approximate depth of 6000', mud up with brinegel for 34-36 sec. viscosity, also add 6% oil. This fluid with the above properties should be adequate to approximate depth of 8800'. We suggest the addition of Permaloid-Drispac to lower fluid loss 15-20cc.

ESTIMATED MUD COST: \$15,000 - \$18,000

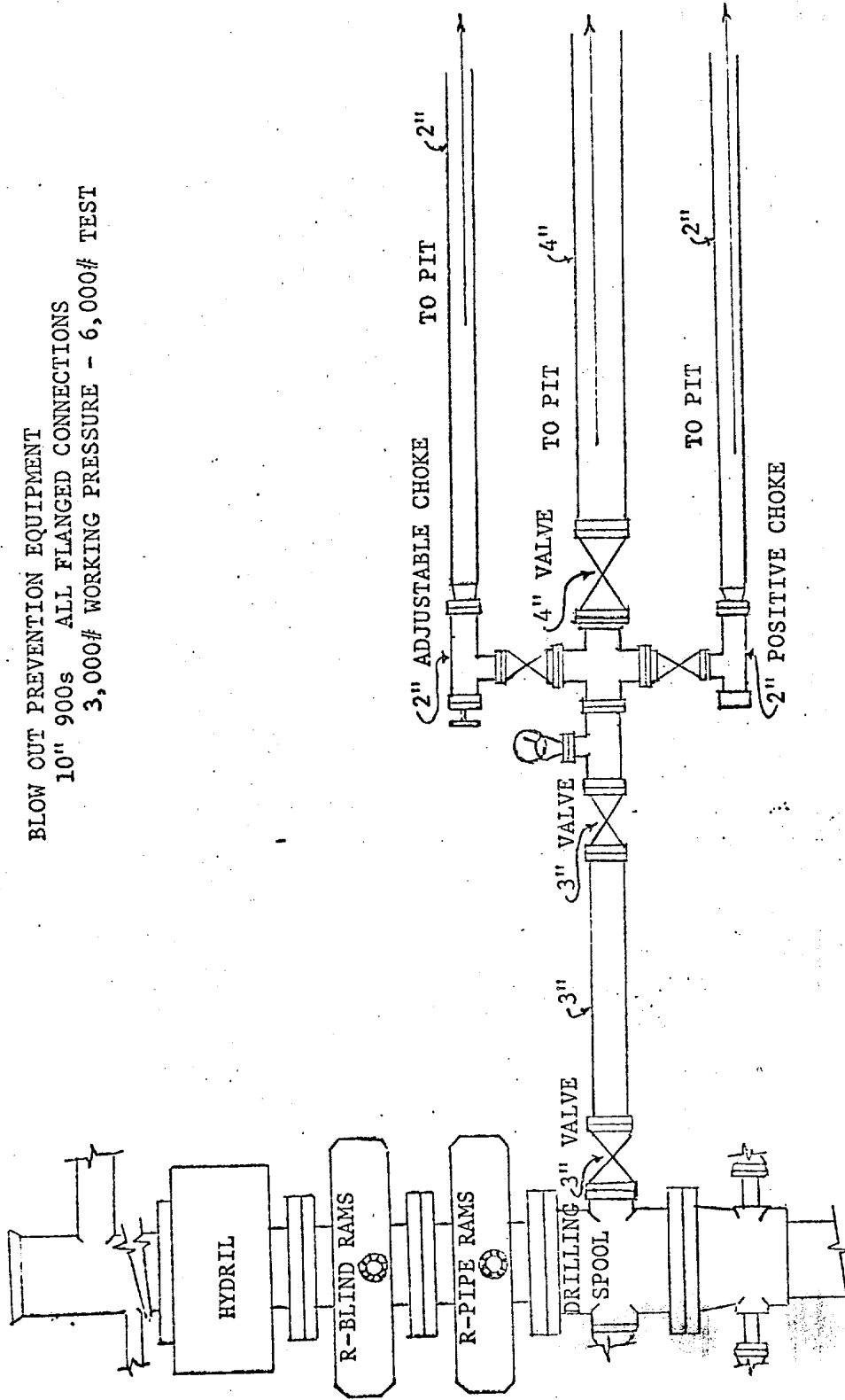
SENIOR ENGINEER: Jim Essman, Hobbs, New Mexico, 505-397-1582

DISTRIBUTOR: Runnels Mud Co., Lovington, New Mexico, 505-396-3663

HONDO DRILLING COMPANY

RIG #3

BLOW OUT PREVENTION EQUIPMENT
10" 900s ALL FLANGED CONNECTIONS
3,000# WORKING PRESSURE - 6,000# TEST



BURN
PIT
15'

10'

Pits as necessary

135'

30'

30'

20'

center
hole

-150'

150'

E

Approximate size of pad
necessary for Hondo's Rig #3

S

SUN FORD
#1

3

2

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

10

11

12

XXXXXX

15

14

13

NEW ROAD
COLOR-RED

PERMANENT
ROAD-GREEN

APPROXIMATE
4 MILES OF
CRICKE ROAD
12' WIDE

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

LOCATION
OF
KING CAMP #1
23

24

CHITTLE
GUARD IN
FENCE LINE
SEC 11

27

26

25

[illegible]

