

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL <input checked="" type="checkbox"/></b> <b>DEEPEN <input type="checkbox"/></b> <b>PLUG BACK <input type="checkbox"/></b>			5. LEASE INFORMATION AND SERIAL NO. <b>NM 14729</b>	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALIEN, OR TRIBE NAME	
2. NAME OF OPERATOR <b>DUGAN PRODUCTION CORP.</b>			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>P O Box 208, Farmington, NM 87499</b>			8. FARM OR LEASE NAME <b>Husky Federal</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface <b>990' FNL - 990' FWL</b> At proposed prod. zone			9. WELL NO. <b>2</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>24 miles north of Cuba, NM</b>			10. FIELD AND POOL, OR WILDCAT <b>Undesignated Gallup</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>4290'</b>			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>0</b> <b>Sec. 25. T21N R4W</b>	
16. NO. OF ACRES IN LEASE <b>2480.0</b>			12. COUNTY OR PARISH <b>Sandoval</b>	
17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>			13. STATE <b>NM</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>1 1/4 mile</b>			19. PROPOSED DEPTH <b>4850'</b>	
20. ROTARY OR CABLE TOOLS <b>rotary</b>			21. APPROX. DATE WORK WILL START* <b>ASAP</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>7088' GL; 7100' RKB</b>			22. APPROX. DATE WORK WILL START* <b>ASAP</b>	
23. PROPOSED CASING AND CEMENTING PROGRAM				

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	36#	200'	160 cf to surface
7-7/8"	4-1/2"	10.5#	4850'	1305 cf in 2 stages

Plan to drill a 12 1/4" hole with spud mud to 200' and set 8-5/8" surface casing. (circulate to surface) Then plan to drill a 7-7/8" hole to T.D. and test the Gallup formation. Will run I.E.S. and C.D.L. logs and if deemed productive, will run casing, cement in two stages (effectively covering the top of the Ojo Alamo formation at 1150'). Will selectively perforate, frac, clean out after frac, and complete well.

GAS IS NOT DEDICATED.

**RECEIVED**

OCT 13 1983

**OIL CON. DIV.**  
**DIST. 3**

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 Sherman E. Dugan TITLE Geologist DATE 9-16-83

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

**APPROVED  
AS AMENDED**

OCT 07 1983

M. Milenbach  
**M. MILLENBACH**  
**AREA MANAGER**  
**(Acting)**

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator Dugan Production Corporation		Lease Husky Federal		Well No. 2
Well Letter D	Section 25	Township 21 North	Range 4 West	County Sandoval
Actual Footage Location of Well:				
990	feet from the North	line and	990	feet from the West line
Ground Level Elev. 7088	Producing Formation Gallup	Pool Undesignated Gallup	Dedicated Acreage: 40 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.

*Sherman E. Dugan*  
Name

Sherman E. Dugan

Position  
Geologist

Company  
Dugan Production Corp.

Date  
9-16-83

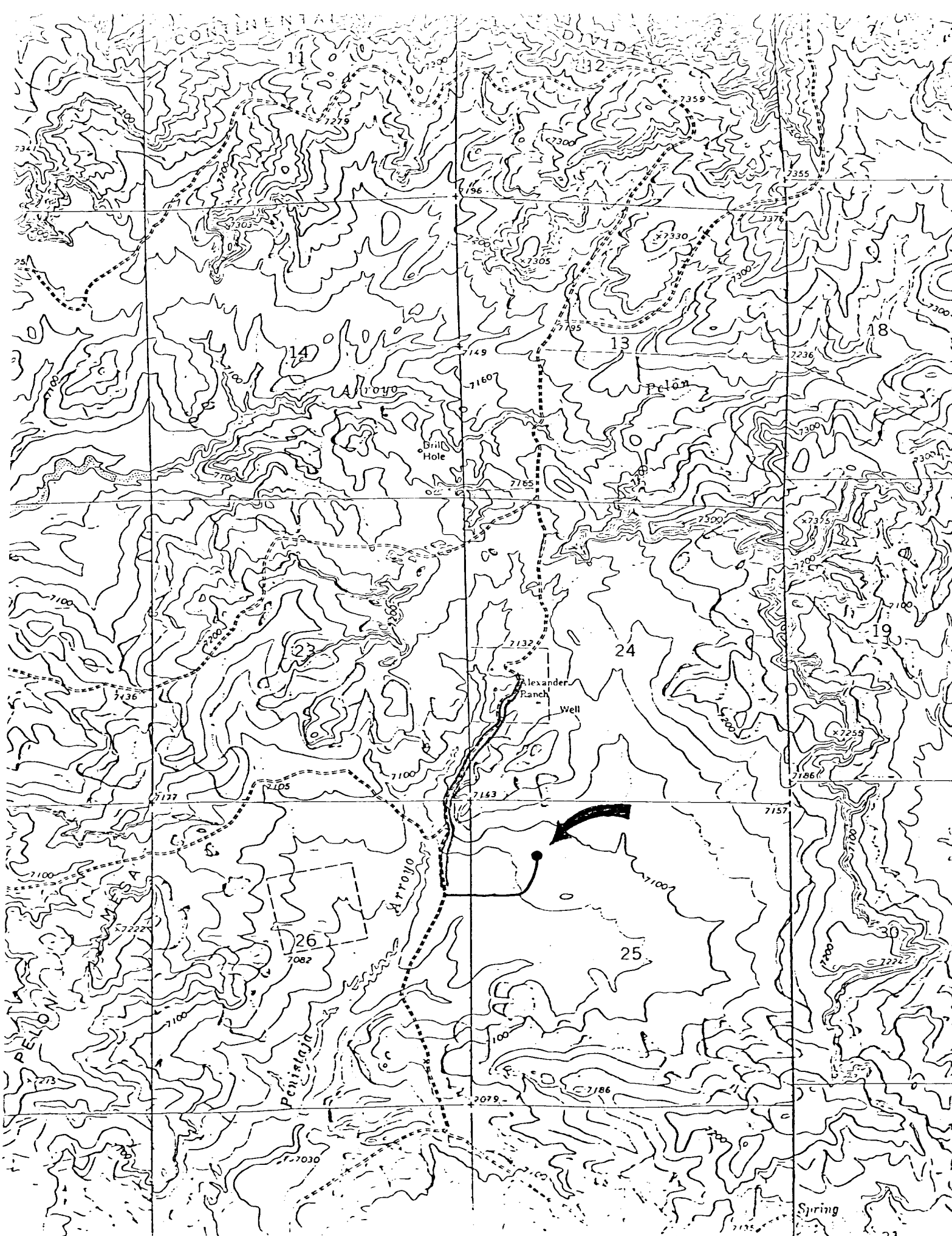
I hereby certify that the location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my knowledge.

Date Surveyed  
September 7, 1983

Registered Professional Engineer  
and/or Land Surveyor

*Edgar L. Risenhoover*  
Certificate No. 5979

Edgar L. Risenhoover, L.S.




DUGAN PRODUCTION CORP. - Husky Federal #2  
Existing Roads  Exhibit E

Distance from nearest town or reference pt.  
24 miles N or Cuba, NM; 2500' from Alexander  
Ranch

Type of surface dirt

Conditions good

Other


DUGAN PRODUCTION CORP. - Husky Federal #2  
Planned Access Road(s)  Exhibit E

Width 15' Maximum grades 0%


Drainage design East end of location


Cuts & Fills None


Surfacing material On site

 Turnouts NONE

 Culverts NONE

 Gates NONE

 Cattleguards NONE

 Fence cuts NONE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

DUGAN PRODUCTION CORP.

3. ADDRESS OF OPERATOR

P O Box 208, Farmington, NM 87499

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

At surface 990' FNL - 990' FWL

At top prod. interval reported below

At total depth

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14. PERMIT NO.  
BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREADATE ISSUED  
10-7-83

5. LEASE DESIGNATION AND SERIAL NO.

NM 14729

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Husky Federal

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Undesignated Gallup

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

Sec. 25, T21N R4W

12. COUNTY OR  
PARISH

Sandoval

13. STATE

NM

15. DATE SPUDDED 11-5-83 16. DATE T.D. REACHED 11-16-83 17. DATE COMPL. (Ready to prod.) 12-8-83 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 7088' GL; 7100' RKB 19. ELEV. CASINGHEAD 7088'

20. TOTAL DEPTH, MD &amp; TVD 5307' 21. PLUG, BACK T.D., MD &amp; TVD 5264' 22. IF MULTIPLE COMPL., HOW MANY\* single 23. INTERVALS DRILLED BY TD 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4787-5215, Gallup 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction - Electric Gamma; Compensated Density; GR - Collar

27. WAS WELL CORED

No

28. 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"	24#	212'	12-1/4"	159 cf class B w/ 2% CaCl	---
5-1/2"	14#	5300'	7-7/8"	1st stg 304 cf (200 sx	---
50/50 poz w/ 2% gel, 12 1/2#	Kolite & 1/4#			2nd stg 1368 cf (550 sx	65/35 poz
w/ 12% gel & 1/4# cello flk/sk & 100 sx class B w/ 4% gel & 1/4# cello flk/sk).					TOTAL 1672 cf.

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8"	4926' RKB	

31. PERFORATION RECORD (Interval, size and number)

4787, 95; 4809, 14, 44, 52, 57, 69, 71, 73, 90; 4909, 13, 39, 46, 72, 79, 81, 83, 85, 99; 5007, 09, 27, 35, 49, 72, 88; 5101, 03, 10, 35, 42, 49, 80, 88; 5201, 15. Total 38 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4787-5215	70,000 gal gelled water (20# J-2/1000 gal); 89,500# 20/40 sand; 80# B-5 Breaker; 370# Aqua Seal; 80 gal. Aqua Flow

33.\*

PRODUCTION

DATE FIRST PRODUCTION 12-29-83 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Swabbing WELL STATUS (Producing or shut-in) Swab testing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-30-83	6	---	---	7	---	---	---
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	TSTM	15 frac wtr	TSTM
-0-	175	---	28	---	TSTM	60 frac water	40° est.

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

Vented during test

TEST WITNESSED BY

Jacobs

35. LIST OF ATTACHMENTS

DEC 3 0 1983

ACCEPTED FOR RECORD

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

SIGNED

Jim L. Jacobs

TITLE

Geologist

DATE

JAN 0 3 1984

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

NMOCC

BY

Smr