

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 ☒			5. LEASE DESIGNATION AND SERIAL NO. NM 17215
b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Marathon Oil Company			7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 552, Midland, Texas 79702			8. FARM OR LEASE NAME Husky Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any requirements.) At surface 660' ENL & 1980' FEL At proposed prod. zone			9. WELL NO. 1
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 7 miles NE from Artesia, New Mexico			10. FIELD AND POOL, OR WILDCAT Diamond Mound-Grayburg
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 17-16-S-27-E
16. NO. OF ACRES IN LEASE 2269.9			12. COUNTY OR PARISH 13. STATE Eddy NM
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			20. ROTARY OR CABLE TOOLS --
19. PROPOSED DEPTH TD 8640' PBTD ±5840'			
21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR: 3490' KB: 3508'			22. APPROX. DATE WORK WILL START* August 3, 1987

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	40	395'	422sx C1 "C"
12 1/4"	8 5/8"	24	1500'	700sx C1 "C"
7 7/8"	5 1/2"	15.5 & 17	8640'	1315sx C1 "C"

Marathon Oil Company proposes to abandon the Abo, 5868-78', by setting a CIBP at 5830 with 2sx of cement on top of the plug. The Grayburg interval will be squeezed to insure cement integrity behind pipe. The Grayburg will be perforated 2066'-2130' and 2465-76'. The Grayburg will then be acidized and tested.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone, 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 E. M. Knight TITLE Engineer DATE July 17, 1987
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE
APPROVED BY TITLE DATE 8-7-87
CONDITIONS OF APPROVAL, IF ANY:

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYNM OIL CONS. COMMISSION
(See In-struct. on reverse side)
Artesia, NM 88210Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other JUN 1 1982

2. NAME OF OPERATOR

HUSKY OIL COMPANY

3. ADDRESS OF OPERATOR

(new address 3/29/82) 6060 So. Willow Drive; Englewood, Colorado 80111

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

At surface 660' FNL & 1980' FEL (NW/4 NE/4)

At top prod. interval reported below Same

At total depth

14. PERMIT NO.

30-015-23730

OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

5. LEASE DESIGNATION AND SERIAL NO.

NM 17215

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Husky Federal

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Diamond Mound, Wolfcamp

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

Sec. 17-16S-27E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

15. DATE SPUDDED

5/15/81

16. DATE T.D. REACHED

6/16/81

17. DATE COMPL. (Ready to prod.)

SI - 2/16/82

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

3490' GR; 3508' KB

19. ELEV. CASINGHEAD

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20. TOTAL DEPTH, MD & TVD

8640'

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

7800'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

All

CABLE TOOLS

None

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

SI 2/16/82 waiting on pipeline connection

Abo: 5868'-5878' will be producing interval

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL/MSFL; CNL/FDC; GR/CNL; CBL/GR

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
13-3/8"	40#	395'	17-1/2"	422 sx Class C + Adds	
8-5/8"	24#	1500'	12-1/4"	500 sx Light C + Adds followed by	
				200 sx Class C + Adds	
5-1/2"	(continued on back)		5-1/2"	(continued on back)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	5857'	5790'

31. PERFORATION RECORD (Interval, size and number)

Atoka: 8265/68'; 8277/81' 4 SPF

Strawn: 7910/14'; 7917/25' 4 SPF

Abo: 5868/78' 4 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See attachment	

33.*

PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
		Flowing				Shut In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/26/82	24	.185	→	--	75	ACCEPTED FOR RECORD	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	GRAVITY API (CORR.)	
87	230	→	--	75	--	--	

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

Vented

35. LIST OF ATTACHMENTS

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

SIGNED

Vera Chandler

TITLE Engineering Assistant

DATE 5/11/82

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Item 28. Casing Record: 17# (8640-6576'); 15.5# (6576-428'); 17# (428-0')
(continued) Cmt'd 1st Stage: 665 sx Class H + Adds
2nd Stage: 450 sx 50/50 Pozmix C followed by
200 sx Class C

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				San Andres	1310	
				Glorieta	2595	
				Abo	4710	
				Wolfcamp	5900	
				Bursum	6680	
				Strawn	7750	
				Atoka	8110	
				Miss. Sh.	8300	
				Chester	8420	
				Miss. Lime	8550	

HUSKY FEDERAL #1
Section 17, T16S, R27E
Eddy County, New Mexico

Attachment
Form 9-330

Item #52: Acid, Shot, Fracture, Cement Squeeze, etc.

Atoka: 8265-68/8277-81 - Acidized w/2 bbls acid, 5000 cu ft N₂,
24 bbls acid w/1000 cu ft N₂/bbl,
28 bbls KCl w/1000 cu ft N₂/bbl

CIBP @ 8200'

Strawn: 7910-14/7917-25 - Acidized w/2 bbls acid, 10,000 cu ft N₂,
34 bbls acid w/1000 cu ft N₂/bbl,
28 bbls KCl w/1000 cu ft N₂/bbl
- Frac'd w/400 bbls gelled wtr + 4500 gal CO₂
+ 15,000# 20-40 sand

CIBP @ 7800'

Abo: 5868-78 - Acidized w/2 bbls acid, 10,000 cu ft N₂,
46 bbls acid w/1000 cu ft N₂/bbl, 40 balls,
22 bbls KCl w/1000 cu ft N₂/bbl
- Frac'd w/12,000# 100 mesh sand,
30,000 #20-40 sand,
826 bbls cross-linked gel,
28 tons CO₂