Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: MOOC142001014

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL ☐ DEEPEN ☒ PLUG BACK ☐

7. UNIT AGREEMENT NAME:

b. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER WILDCAT SINGLE ZONE ☒ MULTIPLE ZONE ☐

8. FARM OR LEASE NAME: Isleta

2. NAME OF OPERATOR: Shell Oil Company

9. WELL NO.: No. 2

3. ADDRESS OF OPERATOR: P. O. Box 831, Houston, Texas 77001 - Attn. G. M. Jobe Room 19104

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 600' FWL & 2200' FNL, Section 16
At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: T8N R2E Section 16

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 2 3/4 miles west and 3/4 miles north of the town of Isleta, NM

12. COUNTY OR PARISH: Bernalillo

13. STATE: New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
600'	640	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
no other well on this lease	22,000	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5156' KB

22. APPROX. DATE WORK WILL START*:

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Drilling at a total depth of 17,519 feet on March 25, 1980. 9 5/8" set at 14,580'. Desire to drill to a projected total depth of 22,000'. Discussed with Mr. James F. Sims on March 25, 1980.

RECEIVED
MAR 27 1980
OIL CONSERVATION DIVISION
SANTA FE

NOTE: DRILL DEEPEN THAN PREVIOUSLY AUTHORIZED BY APPROVED PERMIT (COPY ATTACHED)

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 G. M. Jobe TITLE Supervisor Regulatory Permits DATE 3/25/80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY APPROVED TITLE _____ DATE MAR 27 1980

CONDITIONS OF APPROVAL, IF ANY:

APR 7 1980
JAMES F. SIMS
DIST OF OIL & G-C SUPERVISOR

*See Instructions On Reverse Side

UNITED STATES (reverse side)
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: MOOC 142001014

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Isleta

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Isleta

9. WELL NO.: No. 2

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: T8N, R2E, Section 16

12. COUNTY OR PARISH: Bernalillo

13. STATE: New Mexico

E OF WORK: DRILL [x] DEEPEN [ ] PLUG BACK [ ]

TYPE OF WELL: IL WELL [x] GAS WELL [ ] OTHER SINGLE ZONE [x] MULTIPLE ZONE [ ]

AME OF OPERATOR: Shell Oil Company

Attn: Glen Jobe Rm 19104

DDRESS OF OPERATOR: P. O. Box 831, Houston, Texas 77001

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

At proposed prod. zone: 600' FWL & 2200' FNL, Section 16

DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 3/4 miles west and 3/4 miles north of the town of Isleta, New Mex.

DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
600	640	40
DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. no other well on this lease	19. PROPOSED DEPTH: 18,000	20. ROTARY OR CABLE TOOLS: Rotary

ELEVATIONS (Show whether DF, RT, GR, etc.): 5131' GR

22. APPROX. DATE WORK WILL START*: November 1, 1979

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See Attached	Drilling Prognosis - Attachment B			

ATTACHMENTS:
13 Multi-Point Surface Use Plan
Topo & Road Map - Attachment A
Drilling Prognosis - Attachment B
Drilling Equipment Layout - Attachment C
Survey Record - Attachment D

RECEIVED
OIL CONSERVATION DIVISION
SANTA FE

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive ne. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout eventer program, if any.

SIGNED E. M. Jobe TITLE Supervisor Regulatory Permits DATE 9/25/79

(This space for Federal or State office use)

PERMIT NO.

APPROVED

APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:
Oil Consevation Division
State of New Mexico, Attn. Dan Nutter

RECEIVED
OCT 01 1979
U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

*See Instructions On Reverse Side

Operator

ISLETA #2

CASING DESIGN

STRING	INTERNAL	SIZE	WEIGHT	GRADE	CONN	RATING/SAFETY FACTOR* COLLAPSE	BURST	TENSION
CONDUCTOR	0-500'	20"	94#	H40	STC	520/2.1	1530/2.0	581/15
SURFACE	0-5000'	$13^3/8$"	68#	K55	STC	1950/1.0	3450/1.6	718/2.5
INTERMEDIATE	0-13500'	$9^5/8$"	47#	95	LTC	7100/1.1	8150/1.6	1053/1.9

*Safety factors for conductor and surface strings calculated from following loads:

Collapse load: 1/3 drawdown at next casing point.
Burst load: 1/3 BHP at next casing point.
Tensile load: bouyed weight of casing.

Safety factors for intermediate based on complete evacuation for collapse and estimated maximum SITP for burst.

MUD PROGRAM

Interval: 0-5000'
Mud Type: Bentonite/lime mud
9.0± ppg

Interval: 5000' - 13500'
Mud Type: KCL/Polymer/Bentonite mud 9.0 - 9.5 ppg
9.0± ppg or as required

Interval: 13500' - T.D.
Mud Type: Invert Emulsion (water in diesel) mud
8.5± ppg or as required

ISLETA #2 - ALBUQUERQUE

Blow out Preventer Configuration

0 - 500 - None (Set 20" Surface csg)

500 - 5000 - Nipple up 20" 2000 psi Hudril annular

5000 - TD - Nipple up on 13 3/8 csg with:

1 - 13 5/8 Shoffer 5000 psi annular preventer

2 - 13 5/8 cameron type "U" 10,000 psi Ram type preventers. Top preventer with blind rams, lower preventer with 4 ½" Drill Pipe rams

1 - 13 5/8 10,000 psi drilling spool with 2" and 4" flanged outlets with 2 Cameron type F Valves on each outlet in addition to a check valve on kill line.

1 - 13 5/8 Cameron type "U" preventer with 4½" drill pipe rams.

Typical Drawing is attached.

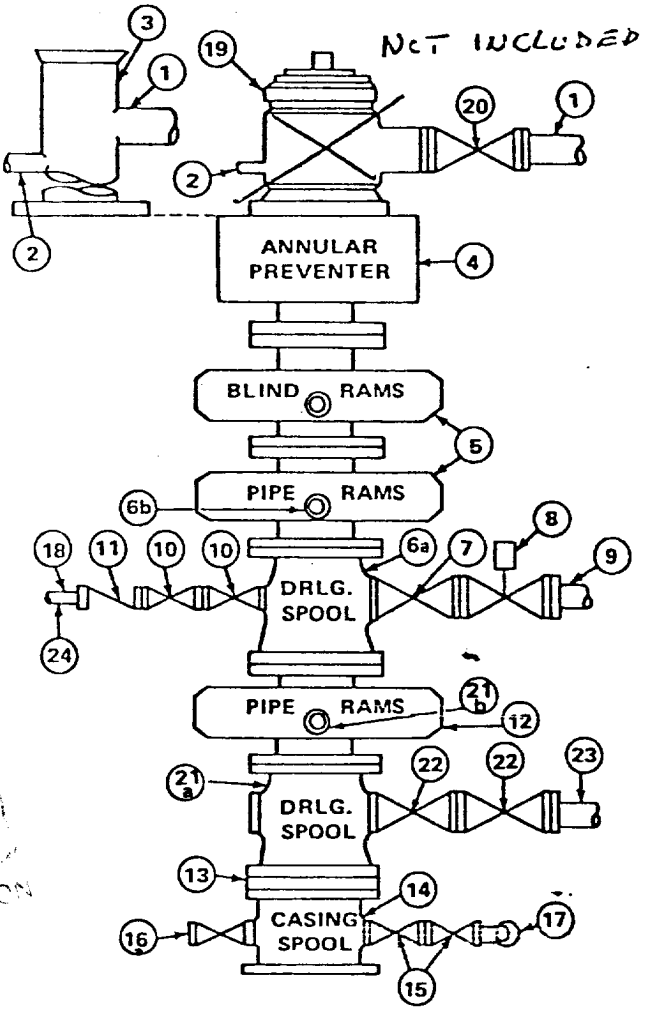
EP-1004-4 (10-79)

SHELL OIL COMPANY

DRAWING AND CHECK LIST 105
SHELL CLASS 5MR, 5MS, 5MA
15,000 psi Working Pressure

No.	Item	Min. I.D.	Min. Nominal	FURNISHED BY Oper.	FURNISHED BY Contr.
	SHELL MINIMUM BOP STACK REQUIREMENTS				
1	Flowline				
2	Fill up Line		2"		
3	Drilling Nipple				
4	Annular Preventer				
5	Two single or one dual hydraulically operated rams				
6a	Drilling spool with 2" and 3" min. outlets				
	—or—				
6b	Use ram outlets as alternate to 6a				
7	Valve Gate [X] Plug [X]	3-1/8"			
8	Gate Valve Power Operated	3-1/8"			
9	Line to choke manifold		3"		
10	Valves Gate [X] Plug [X]	2-1/16"			
11	Check Valve	2-1/16"			
12	Single hydraulically operated ram				
13	Wear flange or bushing				
14	Casing spool				
15	Valves Gate [X] Plug [X]	1-13/16"			
16	Flanged control plug or valve	1-13/16"			
17	Compound pressure guage				
18	Kill line to rig mud pump manifold		2"		

NOT INCLUDED



NOTE: Additional specifications for Sour Service and Air-Gas Drilling are given in Shell Well Control Manual, Appendix 5.20 and Appendix 5.21.

	Item				
	OPTIONAL				
19	Rotating Blowout Preventer*				
20	Power Operated gate valve	6"			
21a	Drilling spool with 3" outlet				
	—or—				
21b	3" outlet in ram preventer				
22	Valves Gate [X] Plug [X]	3 1/8"			
23	Auxiliary choke line		3"		
24	Roadside connection to kill line		2"		