

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 WILDCAT SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Shell Oil Company

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

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

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 600'

16. NO. OF ACRES IN LEASE 640

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. on this lease

19. PROPOSED DEPTH 22,000

20. ROTARY OR CABLE TOOLS Rotary

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

22. APPROX. DATE WORK WILL START*

5. LEASE DESIGNATION AND SERIAL NO.
 MOOC142001014

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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

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.

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.

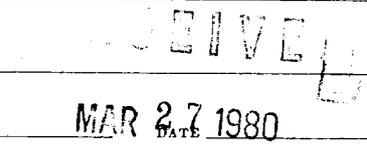
24. SIGNED S. M. Jobe TITLE Supervisor Regulatory Permits DATE 3/25/80

(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
 DISTRICT OIL & GAS SUPERVISOR
 *See Instructions On Reverse Side



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 Shell Oil Company

3. ADDRESS OF OPERATOR
 P. O. Box 831, Houston, Texas 77001

4. 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

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, ^{New}Mex.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit lne, if any) 600

16. NO. OF ACRES IN LEASE 640

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. no other well on this lease

19. PROPOSED DEPTH 18,000

20. ROTARY OR CABLE TOOLS Rotary

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

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

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

*Attn: Glen Jobe
Rm 19104*

23. 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

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

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____ TITLE Jerry Long DATE OCT 01 1979

APPROVED BY _____ TITLE _____ DATE _____

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

*See Instructions On Reverse Side

Operator

U. S. GEOLOGICAL SURVEY
 DURANGO, COLO.

ISLETA #2

CASING DESIGN

<u>STRING</u>	<u>INTERNAL</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>CONN</u>	<u>RATING/SAFETY FACTOR*</u>		
						<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSION</u>
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: buoyed 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 1/2" 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 4 1/2" drill pipe rams.

Typical Drawing is attached.



EP-1004-4 (10-79)

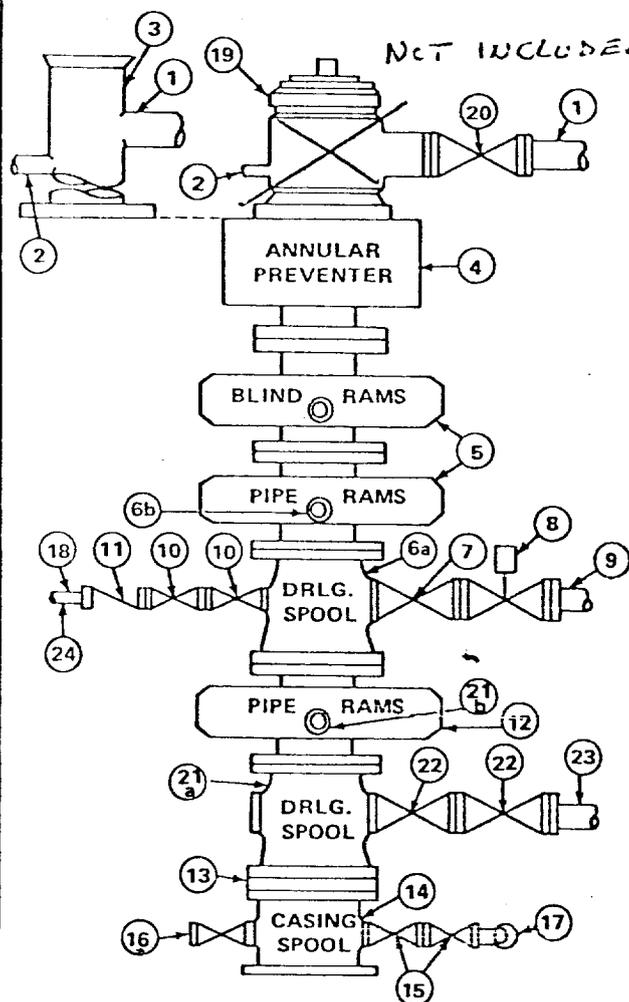
SHELL OIL
COMPANY

DRAWING AND CHECK LIST 105

SHELL CLASS 5MR, 5MS, 5MA

15,000 psi Working Pressure

SHELL MINIMUM BOP STACK REQUIREMENTS				FURNISHED BY	
No.	Item	Min. I.D.	Min. Nominal	Oper.	Contr.
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 <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	3-1/8"			
8	Gate Valve Power Operated	3-1/8"			
9	Line to choke manifold		3"		
10	Valves Gate <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	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 <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	1-13/16"			
16	Flanged control plug or valve	1-13/16"			
17	Compound pressure gauge				
18	Kill line to rig mud pump manifold		2"		



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

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 <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	3 1/8"			
23	Auxiliary choke line		3"		
24	Roadside connection to kill line		2"		
	Shear ram blocks for blind rams				