District I
P. O. Box 1980, Hobbs, NM 88241-1980
District II
P. O. Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
P. O. Box 2088, Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, NM 87504-2088

Form C-101
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

1. C. DOX 2000	5, 15mma 1 C, 14	141 67304-200				0750-1-200	•			- `	- 20mov - 00p.00	
										AME	ENDED REPORT	
APPLIC	ATION	FOR PE	ERMIT T	O DRI	LL, RE-EN	NTER, DE	EPE	EN, PLUG	BACK.	OR A	ADD A ZONE	
	···		1 O _I	erator Nam	ne and Address.						OGRID Number	
Apache Corporation									873 API Number			
	0/ 1/) F 1	1 D	0 B	0(01 B	U ND 4 00	200	0.01		30-02	25 - 34554	
1 p		J. Easley	, Inc., P.	O. Box	2691, Rosv	-	202	2691				
22879	rty Code					Property Name Owen B					⁶ Well No.	
			 									
UL or lot no.	Section	Township	Range	Lot Idn	Surface Feet from the	Location North/South L		Feet from the	East/W	and line	County	
K	34	215	37E	Locium	1650	South Line				est inie	County Lea	
	L	l	. L	Botton	n Hole Loca		eren		<u> </u>			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South L		Feet from the	East/W	est line	County	
	<u> </u>	L.,										
	Peni	•	ed Pool 1 elly Grayb	ura				" Pro	posed Pool	2		
						<u></u>						
	Type Code N		12 Well Type Code			e/Rotary		14 Lease Type D			13 Ground Level Elevation	
	ultiple		O 17 Proposed Depth		18 Fon	l l		19 Contractor		3429' 20 Spud Date		
	10				i	Grayburg		1-7-99				
			21	Propos	sed Casing a		Pro	ogram		J		
Hole si		Casin	g Size	Casing	g weight/foot	Setting Depth Sacks of Cement				Estimated TOC		
11"	'	8 5	8 5/8"		24#	1200	1200'		350		Circ to Surf	
7 7/8	3"	5 1	5 1/2"		17#	3950'		705		Circ to Surf		
·····		<u></u>	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
Describe the bl	proposea prog owout prevent	gam. If this a	apphication is to	DEEPEN ditional she	or PLUG BACK ets if necessary. See Ext	give the data on t	nepred Gental	Sent productive zo	me and proj	oosed new	productive zone. े व्यक्तिकार प्रश्नितिकार इंड (ेश्वर्किन	
²³ I hereby certi my knowledge Signature:	ify that the infi and belief My July	0/	en above is true	and compl	ete to the best of	Approved by		CONSERV	/ATIO		ISION	
Printed name:	Ken Ham	monds				Title:						
Title: Agen	t for Apa	che Cor	poration			Approvel Dates Expiration Date:						
Date:			Phone: 505	-625-88	807	Conditions of A	pprov	/al:				
			<u> </u>			Autorea em	_					

DISTRICT 1
2.0. Box 1880, Hobbs, NM 88241-1880

State of New Mexico

Energy, Minerale and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT II P.O. Drawer DD, Artonia, NM 66211-0719

EXHIBIT "A"

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT IV P.O. BOX 2088, SANTA PE, N.M. 87504-2088 Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code Pool Name		
30-025-34554	50350	Ggayburg	
Property Code	Pro	Well Number	
22879	O/	7	
OGRID Na.	Ope	rator Name	Elevation
873	APACHE	CORPORATION	3429'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	34	21 S	37 E		1650	SOUTH	2310	WEST	LEA

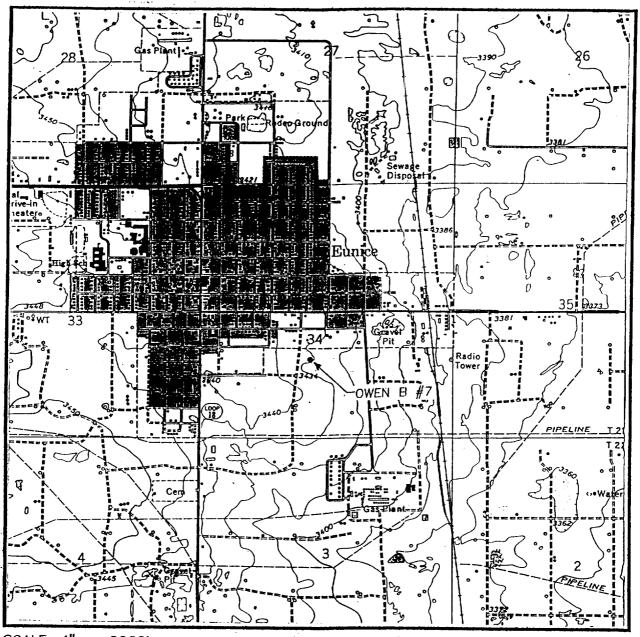
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill C	onsolidation (Code Or	der No.				<u> </u>
40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION
	I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	Signature Signature
	Ken Hammonds Printed Name
	Agent for Apache Corp
	12/16/98 Date
	SURVEYOR CERTIFICATION
	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervisor, and that the same is true and correct to the best of my belief.
2310'	OCTOBER 1, 1998
- because -	Date Surveyed CDG Signature & Scal of Date Professional Surveyors
1850'	Bonst 10.05.98
	Certificate No. RONALD J. EDSON 3239 GARY EDSON 12641

LOCATION VERIFICATION MAP



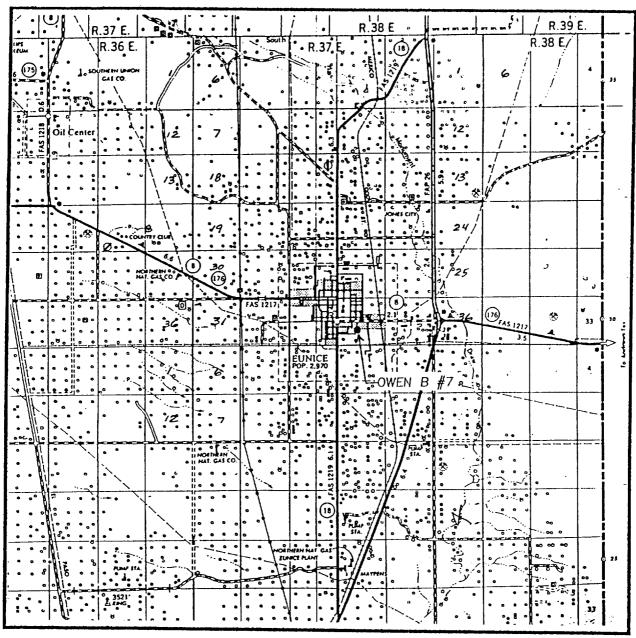
SCALE: 1'' = 2000'

CONTOUR INTERVAL - 10'

SEC. 34 TWP. 21-S RGE. 37-E
SURVEYN.M.P.M.
COUNTYLEA
DESCRIPTION 1650' FSL & 2310' FWL
ELEVATION 3429'
OPERATOR APACHE CORPORATION
LEASE OWEN B
U.S.G.S. TOPOGRAPHIC MAP
EUNICE, NM

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 34 TW	P. <u>21-S</u> RGE. <u>37-E</u>
SURVEY	N.M.P.M.
COUNTY	LEA
	650' FSL & 2310' FWL
ELEVATION	3429'
OPERATOR_AP	ACHE CORPORATION
I FASF	OWEN R

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117



EXHIBIT "C" Owen B #7

DRILLING PROGRAM

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- II. Estimated Tops of Geological Markers:

<u>FORMATION</u>	<u>DEPTH</u>
Yates	2500'
Grayburg	3600'
TD	4500'

III. Estimated depths at which water, oil, gas, or other mineral-bearing formations are expected to be encountered:

SUBSTANCE

DEPTH

Fresh Water

None anticipated

Oil

3600'

Gas

None anticipated

IV. A. Proposed Casing Program:

HOLE SIZE	<u>CASING</u> <u>SIZE</u>	<u>GRADE</u>	WEIGHT PER FOOT	DEPTH
11"	8 5/8"	K55 STC	24#	1200'
7 7/8"	5 1/2"	K55 LTC	17#	3950'

B. Proposed Cement Program:

8 5/8"

Cement with 350 sx PBCZ to surface.

5 1/2"

Cement with 445 sx Interfill "C" and 260 sx POZ 50/50 premium.

The top of cement is designed to reach 100' above 8 5/8" cashing shoe.

V. Proposed Mud Program:

The well will be drilled to total depth using fresh water & brine. 8.6-9.2 weight mud using fresh water will be used from surface to 1200' and 9.0 - 10.3 weight mud with brine water will be used from 1200' to TD.

VI. Proposed Control Equipment:

Will install on the 8 5/8" surface casing a 10" Series 900, Type "E", Shaffer Double Hydraulic BOP, with pipe and blind rams and annular stabbing valve, and will test before drilling in the Queen formation. BOP working pressure: 3000 psi. See Exhibit "E" for BOP layout.

VII. Auxiliary Equipment:

Blowout preventor, gas detector, kelly cock, pit level monitor, flow sensors, and stabbing valve.

VIII A. Testing Program:

Drill Stem Tests: None planned

B. Logging Program:

Density Neutron

C. Coring Program:

None planned

IX. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight.

EXHIBIT "D" Owen B #7

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. <u>Hydrogen Sulfide Training</u>

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H_2S) .
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H₂S Safety Equipment and Systems

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating, the first zone containing, or reasonably expected to contain, H₂S.

1. Well Control Equipment:

- A. Flare line with electronic igniter or continuous pilot.
- B. Choke manifold with a minimum of one remote choke.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment to include annular preventer, mud-gas separator, rotating head, and flare gun with flares.
- 2. Protective equipment for essential personnel:
 - A. Mark II Surviveair 30-minute units located in the dog house and at briefing areas, as indicated on Exhibit "F".
- 3. H₂S detection and monitoring equipment:
 - A. Two portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.
 - B. One portable S02 monitor positioned near flare line.
- 4. Visual warning systems:
 - A. Wind direction indicators as shown on Exhibit "F".
 - B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

5. Mud program:

- A. The mud program has been designed to minimize the volume of H₂S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H₂S scavengers will minimize hazards when penetrating H₂S-bearing zones.
- B. A mud-gas separator and an H₂S gas buster will be utilized.

6. Metallurgy:

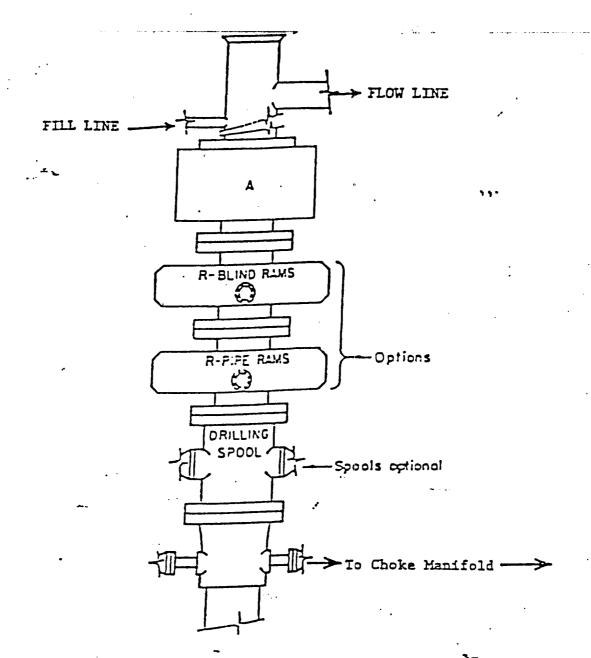
- A. All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- B. All elastomers used for packing and seals shall be H₂S trim.

7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land Line (telephone) communications at field office.

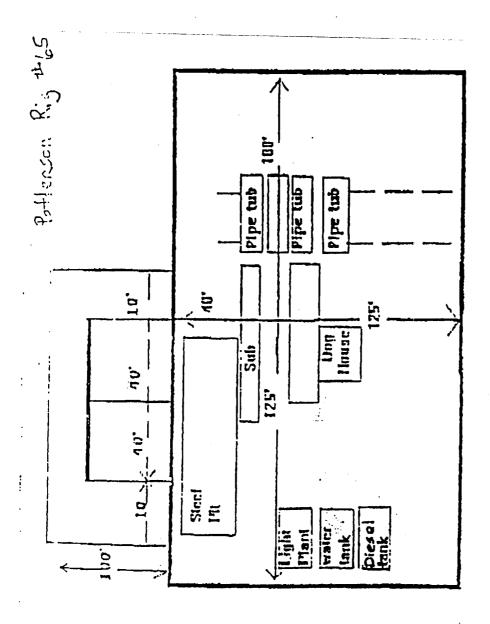
8. Well testing:

A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours, and formation fluids will not be flowed to the surface. All drill stem testing operations conducted in an H₂S environment will use the closed chamber method of testing.



ARRANGEMENT SERA

900 Series 3000 PSI WP



19/19/9

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