Form 9-331 C (May 1963)	Drawer DD Artesia, * 8821		SUBMIT II (Other instru	.IPLICATE		d. No. 42-R1425.
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	DEPARTMENT	OF THE INTE	RIOR	ب ا	5. LEASE DESIGNATION	
0155	GEOLOG	ICAL SURVEY			NM 0486	
APPLICATIO	N FOR PERMIT TO	D DRILL, DEEP	EN, OR PLUG	ВАСК	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK						
	ILL 🖾	DEEPEN	PLUG BA	CK 📋	7. UNIT AGREEMENT NA	
b. TYPE OF WELL	45 V		INGLE []] MULTH		BIG EDDY UN	
WELL	AS OTHER		ONE X ZONE		8. FARM OR LEASE NAM	
2. NAME OF UPERATOR					BIG EDDY UN	
PERRY R. BAS	5 V				9. WELL NO.	
3. ADDRESS OF OPERATOR					87	
<u>P. 0. BUX 27</u>	60, MIDLAND, TEXA	45 79702	DECENVED		10. FIELD AND POOL, OF	
4. LOCATION OF WELL (R At surface	seport location clearly and in	e accordance with any	State requirements		\times bass morrow	
1980'ESL &	1980' FWL, SEC 28	3. T215. R28E			AND SURVEY OR AR.	
At proposed prod. zon	1e	, iero, ideoc	OCT 20198	1	$\mathcal{T}_{i}^{(1)}\mathcal{F}_{i}^{(2)} = \mathcal{F}_{i}^{(2)}$	
Same as abov					SEC. 28, T2	1S, R28E
	AND DIRECTION FROM NEARES		••• O. C. D.		12. COUNTY OR PARISH	13. STATE
10 miles eas	t of Carlsbad, Ne	ew Mexico	-	. .	EDDY	NEW MEXICO
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dri	T LINE, FT. 66	50'	O. OF ARTESIA, OFFICE		F ACRES ASSIGNED 115 WELL 320	
18. DISTANCE FROM PROI TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING, COMPLETED,	19. P	13,000	20. ROTAL Rota	ay or cable tools	
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)				22. APPROX. DATE WOI	K WILL START*
GL 3182.5'					Upon Appro	val
23.	PR	OPOSED CASING AN	D CEMENTING PROGR	АМ		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMEN	т
15"	11-3/4"	42#	1100'-	800	sx circ. to su	rface
1]"	8-5/8"	32#	2900 ±		sx circ. to su	
7-7/8"	5-1/2"	17#	TD	1100	and the second	

Drilling Procedure, BOPE diagrams, anticipated formation tops, and surface use plans are attached.

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Gas is <u>dedicated</u>.

DEGEXWI	
SEP 29 1981	Posted Boot
OIL & GAS U.S. GEOLOGICAL SUR ROSWELL, NEW MEXI	RVEY APIT 123-31

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 Stephen Smith	TITLE ENGINEERING ASSISTANT	September 18, 198
(This space for Federal or State office use) (This space for Federal or State office use)	APPROVAL DATE	
APPROVED BY CONDITIONS OF A OCT 11 13 1981	TITLE	DATE
JAMES A. GILLHAM DISTRICT SUPERVISOR	*See Instructions On Reverse Side	



3182.5'	Morrow	Ba	ass Morrow Gas	
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BIG CAR IN THE TREE REPORTS OF THE STREET

320

Unit

Stephen Smith

Stephen Smith Engineering Assistant Perry R. Bass September 18, 1981

1 Charles & Cardles

Big Eddy Unit #87

Location:

1980' FSL & 1980' FWL, Sec. 28, T21S, R28E

Conductor Casing:

40' $^{\pm}$ of 16' conductor casing will be set with a rathole machine and cemented to the surface with ready-mix.

Surface Hole:

A 15" O.H. will be drilled to 1100' $\stackrel{+}{-}$ T/Capitan and 11-3/4" 42#/ft H-40 casing run to total depth. The surface casing will be cemented with 500 sx Halliburton Lite plus 8#/sx NaCl plus $\frac{1}{4}$ #/sx Flocele tailed by 300 sx Class "C" plus 2% CaCl₂. Cement must be circulated to the surface.

Total WOC time is 12 hours.

Nippling Up 11-3/4" Casing:

After waiting 4 hours "nippling up" procedures may begin. An 11-3/4" SW 3000# WP x 12" 3000# WP casinghead will be welded in place. A set of hydraulic operated pipe and blind rams will then be installed. (See BEPCO II attached) and tested to 1000 psi with the rig pump.

The results of this test must be reported in the daily driller's log.

Intermediate Hole:

An 11" O.H. will then be drilled to 2900' (T/Delaware Mtn. Group) 8 5/8" casing will be run to total depth and cemented with approximately 450 sks Halliburton Lite plus $\frac{1}{4}$ /sx flocel, "tailed in" with 250 sx Class "C" with 2% CaCl₂ plus $\frac{1}{4}$ /sx flocel. Cement will be circulated to the surface.

A DV tool will be installed at approximately 1200' (100' into Capitan Reef) and the cement two staged, if lost circulation occurs in the reef.

Total WOC time for this casing string will be 24 hours.

Nippling Up 8-5/8" casing:

After waiting 4 hours "nippling up" procedures may begin. A 12" 3000# WP x 10" 5000# casing spool with 8-5/8" seals and bit guide will be installed.

A BOP stack consisting of hydril, pipe rams and blind rams will be installed as per BEPCO Drawing IV (attached). This BOP stack will be hydrostatically tested to 5000 psi (hydril 1500#) by Yellow Jacket. The USGS will be notified in sufficient time to witness the testing of the 8-5/8" BOP stack. A copy of the test results will also be furnished to the USGS.

The results of this test will be recorded in the daily driller's log.

Production Hole:

a 7-7/8" O.H. will then be drilled to T.D. (12600^{+}) A PVT recorder, flow-show sensor and rotating head will be installed before drilling the Wolf-camp. (T/Wolfcamp @ 9000'+)

 $5\frac{1}{2}$ " casing will be run to T.D. This casing string will be cemented with approximately 900 sx Class "H" plus 5# KCI/sx plus 0.3% CFR-2, plus 0.6% Halad 22. The cement volume should be sufficient to bring the cement top 1000' above the Wolfcamp.

Time:

This well is estimated to take 49 days from spud to T.D.

Gary Gerhard

CASING DESIGN

BIG EDDY UNIT #87

SURFACE CASING

SEGMENT	SIZE	GRADE	THREAD	WEIGHT	TOP	BOTTOM	LENGTH
1	11-3/4	H-40	ST&C	42#	0 ±	1100' <u>+</u>	1100 ' +

INTERMEDIATE CASING

SEGMENT	SIZE	GRADE	THREAD	WEIGHT	TOP	BOTTOM	LENGTH
1	8-5/8"	K-55	ST&C	32#	0	2900'-	2900'±

PRODUCTION CASING

SEGMENT	SIZE	GRADE	THREAD	WEIGHT	TOP	BOTTOM	LENGTH
1	5-1/2"	S-95	LT&C	17#	9830' '	12,600' '	2770' '
2	5-1/2"	N-80	LT&C	17#	0	9,830'±	9830' '

Stephen Smith

SS/1b

BIG EDDY UNIT #87

•

ANTICIPATED FORMATION TOPS (GL 3182')

Rustler	250	(+2932')
Base Rustler	400'	(+2782')
T/Capitan Reef	1100'	(+2082')
T/Dela. Sand	2900'	(+282')
T/Bone Springs	5500'	(-2318')
T/Wolfcamp	9000'	(-5818')
T/Strawn	10,700'	(-7518')
T/Atoka	11,200'	(-8018')
T/Middle Morrow	11,500'	(-8318')
T/Lower Morrow	11,800'	(-8618')
T/Barnett	12,200'	(-9018')

Stephen Smith Stephen Smith

BIG EDDY UNIT NO. 87

MUD PROGRAM

	WATER LOSS	NC NC 10cc or less 10cc or less
	% 01L	0000
	VISCOSITY	34 - 40 28 - 30 25 - 35 35 - 40
	MEIGHT	$\begin{array}{rrrrr} 8.4 & - & 9.0 \\ 8.4 & - & 8.6 \\ 9.9 & - & 10.2 \\ 11.4 & - & 11.6 \end{array}$
TYPE	MUD	FW Gel FW BW Gel BW Polymer
	10	11,200' + TD
	FROM	11,200 + +

Stephen Smith

MULTI-POINT SURFACE USE AND OPERATIO	MS PLAN
BIG EDDY UNIT #87	ារដែលប្រដែល
1980' FSL & 1980' FWL	
Sec 28, T-21-S, R-28-E	世 SEP 29 1981
Eddy County, New Mexico	OIL & GAS U.S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction, activities, and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to rehabilitate the surface after completion of operations so that an appraisal can be made on environmental effects.

•

- 1. Existing roads including location of exit from main highway Existing road is obtained by traveling approximately 5 miles northeast of Carlsbad on Highway 62-180. Turn due east for 1/2 mile, then southwest for 2 miles. Location is approximately 3500' due east. See Exhibit "A".
- 2. Planned access road Exhibit "A" is a map showing the planned access road. This road will be 12' wide and 3500' long. The road will be constructed of water compacted caliche with no turnouts, cattleguards, gates or culverts.

3. Location of existing wells_____Exhibit "A" shows surrounding existing wells.

5	. Location and type of water supply Fresh water supply will be haulded from
	the City of Carlsbad. Brine water will be hauled from Champion Brine
	Water Station 3-1/2 miles east and 2-1/2 miles south of Carlsbad.
6	. Source of construction material Exhibit "A" shows approximate location
	of caliche source.
7	. Methods of handling waste disposal:
	A. Drill cuttings will be disposed of in the drilling pits.
	B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
	C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
	D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
	E. Trash, paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind. Location of trash pit is shown in Exhibit "B".
	F. Trash and debris will be buried or removed from the well site within 30 days after finishing drilling and/or completion operations. (Note: All trash left on well site to be removed or buried within 30 days must be contained to prevent scattering.)
8.	Ancillary facilities None required.
9.	Well site layout Exhibit "B" shows the approximate dimensions of the
	well pad and reserve pit, as well as the relative location of major rig
	components, trash pits, etc. Only one minor levelling of the well site
	will be required. No significant cuts or fills will be necessary. The
	reserve pit will be lined with plastic. The pit and pad area have been
	staked and flagged.

	A.	Producing well - all pits will be cut, filled, and leveled as soon as practical to original conditions with rehabilitation to commence following removal of drilling and completion equipment.						
	B. Dry hole - same as above with dry hole marker to be install surface reseeded if required. At the same time of final at USGS and BLM restoration stipulations will be complied with							
11.	0t	Other information:						
	Α.	Terrain relatively flat						
	B.	Soil sandy						
	C.	Vegetation sparse, primarily mesquite with very little grass.						
	D.). Surface Usegrazing						
	Ε.	Surface water none						
	F.	Water wells There is a water well approximately 1 mile east of location.						
	G.	Residences and buildings None within one mile of location.						
	Н.	Surface ownershipThe well site and access road are on federal land						
	I.	Well signs posted at each drilling site.						
	J.	. Open pits - all pits containing liquid or mud will be fenced.						
	К.	Archaeological resources none observed						

10. Plans for restoration of surface:

12. Operator's representative (Field personnel responsible for compliance with development plan for surface use)

DRILLING Mike Cure Box 2760 Midland, Texas 79702 915-684-5723

PRODUCTION Al Gallas Box 1043 Kermit, Texas 79745 915-563-0656 (or) Alan Roberts Box 2760 Midland, Texas 79702 915-684-5723

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Bass Enterprises Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

September 18, 1981 (Date)

· Stephen (Name) Stephen Smith

Engineering Assistant (Title)

CEB:gp

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THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

- A. ONE DOUBLE GATE BLOWOUT PREVENTER WITH LOWER RANS BLIND AND UPPER RANS FOR PIPE, ALL HYDRAULICALLY CONTROLLED. OPENING ON PREVENTERS BETWEEN RANS.
- B. OPENING TO BE FLANGED, STUDDED OR CLAMPED AND AT LEAST TWO INCHES DIAMETER.
- C. ALL CONNECTIONS FROM OPERATING MANIFOLD TO PREVENTERS TO BE ALL STEEL HOSE OR TUBE A MINIMUM OF ONE INCH IN DIAMETER.
- D. THE AVAILABLE CLOSING PRESSURE SHALL BE AT LEAST 15% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE PREVENTERS.
- E. ALL CONNECTIONS TO AND FROM PREVENTERS TO HAVE A PRESSURE RATING EQUIVALENT TO THAT OF THE B.O.P.L.
- F. NANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CENERT PLUG.
- G. VALVE TO CONTROL FLOW THROUGH DRILL PIPE TO BE LOCATED ON RIG FLOOR.
- H. CHOKE MAY BE EITHER POSITIVE OR ADJUSTABLE. Choke spool may be used between rams.

BEPCO II

ONE HYDRAULIC DUAL BLOWOUT PREVENTER



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

A. CONDITIONS MAY BE MET BY AN ANNULAR TYPE BLOWOUT PREVENTER ON TOP AND A CHOKE SPOOL BELOW AND EITHER (1) TWO RAN TTPE BLOWOUT PREVENTERS BELOW THE SPOOL, THE LOWER UNIT CONTAINING BLIND RANS AND THE UPPER UNIT CONTAININ

(2) A DUAL BLOWOUT PREVENTER BELOW THE SPOSE WITH BLIND RAKS ON BOTTOM AND PIPE RAMS ON TOP. 1. OPENING ON CHOKE SPOOL TO BE FLANGED, STUDDLD OR CLAMPED.

C. ALL CONNECTIONS FROM OPERATING MANIFOLDS TO PREVENTERS TO BE ALL STEEL HOSE OR TURE A HIMIMUM OF CHEINCH IN DIAWETER.

THE AVAILABLE CLOSING PRESSURE SHALL BE AFTERST IS% IN EXCESS OF THAT REQUIRED WITH SUFFICIENT VOLUME TO OPERATE THE B

- F. ALL CONNECTIONS TO AND FROM PHEVENTER TO HAVE & PRESSURE RATING EQUIVALENT TO THAT OF THE B O P 3.
- NANUAL CONTROLS TO BE INSTALLED BEFORE DRILLING CEMENT FLUG. MELLY COCK TO BE INSTALLED ON KELLY. 6
- 11.

INSIDE BLOWOUT PREVENTER TO BE AVAILABLE ON RIG FLOOR

BUAL OPERATING CONTPOLS ONE LOCATED BY OWILLERS POSITION AND THE OTHER LOCATED & SAFE DISTANCE FROM THE RIG FLOOD.

BEPCO IV THREE CLOSURE HYDRAULIC DLOWOUT PREVENTERS