	DEPARTMEN	IT OF THE I	NTERIOR		30-02/-20002
	GEOL		EY		5. LAASS DESIGNATION AND SERIAL NO
APPLICATIC	N FOR PERMIT	TO DRILL	DEEPEN, OR PLU	GRACY	6. IF INDIAN, ALLOTTE OR TRIBE NAME
14. TYPE OF WORK				U DALK	
D. TYPE OF WELL	RILL k	DEEPEN (PLUG	BACK 🗌	7. UNIT ADREMANT RAME
OIL WELL	GAS OTHER				Jornada del Muerto//
2. NAME OF OPERATOR			ZONE SO		
BEARD OIL CO				Ę r	9. WELL NO.
	-	with oblight.			2
4. LOCATION OF WRLL (Report location algority on	d In	na City, Oklahoma h any State requirements.*)	a /3106	10. PIBLD AND POOL, OR WELDCAT
1980'	FSL & 660' FEL	of Sec. 17-	-14S-1W		Nildcat 11. Mc., T., B., M., OR BLE.
At proposed prod. zo	a County, New M	exico			AND SURVEY OR AREA
14. DISTANCE IN MILER	Same	ARERT TOWN OF BOT	OFFICIA		Sec. 17-145-1W
	h, 4 miles east				12. COUNTY OR PARISE 13. STATE
LO. DISTANCE FROM PROI LOCATION TO NEARES	POSED*		16. NO. OF ACRES IN LEASE	17. NO. 0	Sierra New Mex.
(Also to nearest dr	LINE, FT. lg. unit line, if any)	660'	2566.09		40 acres
18. DISTANCE FROM PRO To nearest well, or applied for, on th	DRILLING, COMPLETED,		19. PROPOSED DEPTH	20. BQTA	ET OR CABLE TOOLS
	hether DF, RT, GR, etc.)	st well	9000' El Paso		Rotary
		tion submitt	ed when availabl	le	22. APPBOR. DATE WORK WILL START Upon approval
3.			G AND CEMENTING PRO		open approvat
SIZE OF HOLE	SIZE OF CABING	WEIGHT PER FO			
17-1/2"	13-3/8"	48	500'		QUANTIET OF CEMENT
12-1/4"	9-5/8"	36	2650'		00 sx/Circ, 300 sx
_	5-1/2"	14, 15.5 &		<u>-</u> 1	
7-7/8"	J=1/2	1 17, 10.0 0	17 9000		100 sx
		t & cmt 20"	conductor in 26"	hole (a	300 sx pprox. 30' with rathole
1. If condu- or cable	ctor needed, se tool rig.	t & cmt 20"	conductor in 26"	hole (a	pprox. 30' with rathole
 If condu- or cable MIRU rota 	ctor needed, se tool rig. ary rig. Drill	t & cmt 20" 17-1/2" hol	conductor in 26" e to 500'. Run	' hble @ a 13-3/8": s	pprox. 30' with rathole surface csg. & circ cmt
 If condu or cable MIRU rot. Nipple u 	ctor needed, se tool rig. ary rig. Drill p 12" double rai	t & cmt 20" 17-1/2" hol m-type Blowd	conductor in 26" e to 500'. Run put Preventer, te	' hble @ a 13-3/8" s est to 5 00	pprox. 30' with rathole surface csg. & circ cmt
 If condu- or cable MIRU rota Nipple u Drill 12 	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2	t & cmt 20" 17-1/2" hol m-type Blowd	conductor in 26" e to 500'. Run put Preventer, te	' hble @ a 13-3/8" s est to 5 00	pprox. 30' with rathole surface csg. & circ cmt
 If condu- or cable MIRU rota Nipple u Drill 12- cement w 	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx.	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e	conductor in 26" e to 500'. Run put Preventer, te electric logs. R	' hble @ a 13-3/8" s est to 5 00 Run 9-5/8"	pprox. 30' with rathole surface csg. & circ cmt
 If condu or cable MIRU rota Nipple u Drill 12 cement w Nipple u Drill out 	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce	conductor in 26" e to 500'. Run put Preventer, te lectric logs. R Test to 1000 ps hole size to 7-	' hble @ a 13-3/8" s est to 50 0 Run 9-5/8" si.	approx. 30' with rathole surface c sg. & cir c cmt psi. intermediate csg &
 If condu or cable MIRU rota Nipple u Drill 12- cement w Nipple u Drill out Drill out Drill to 	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho total depth 90	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs.	' hble @ a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when	pprox. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant.
 If condu or cable MIRU rot. Nipple u Drill 12- cement w Nipple u Drill ou Drill ou Drill to Drill Ste 	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows o	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu	' hble @ a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when ad Logging	pprox. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant.
 If condu or cable MIRU rota Nipple u Drill 12- cement w Nipple u Drill ou Drill ou Drill to Drill Sta If comment 	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated, 5	' hble @ a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when ad Logging	pprox. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant.
 If condu- or cable MIRU rota Nipple u Drill 12 cement w Nipple u Drill 00 Drill 00 Drill to Drill 5te If commen- mented ac 	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho total depth 90 em Test shows of rcial oil or gas cross prospecti	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated, 5	hole (a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when ad Logging 5-1/2" csg	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce-
 If condu- or cable MIRU rota Nipple u Drill 12 cement w Nipple u Drill 00 Drill 00 Drill to Drill 5te If commen- mented ac 	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas cross prospecti ely perforate o	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated, 5	hole (a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when ad Logging 5-1/2" csg	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce-
 If condu- or cable MIRU rota Nipple u- d. Drill 12- cement w. Nipple u- d. Drill our Drill to Drill state If commen- mented ad Selective Test and 	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 900 em Test shows o rcial oil or gas cross prospecti ely perforate o complete.	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated, 5 Stimulate if	hole @ a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when d Logging 5-1/2" csg necessary	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce-
 If condu- or cable MIRU rota Nipple uj Drill 12- cement with Nipple uj Drill out Drill to Drill sta If commented ad Selectiva Test and 	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho total depth 900 em Test shows o rcial oil or gas cross prospectionely ely perforate of complete.	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated, 5 . Stimulate if	hole (a 13-3/8" s est to 500 Run 9-5/8" 51. 7/8" when ad Logging 5-1/2" csg necessary	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce-
 If condu- or cable MIRU rota Nipple uj Drill 12- cement with Nipple uj Drill out Drill to Drill sta If commented ad Selectiva Test and 	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho total depth 900 em Test shows o rcial oil or gas cross prospectionely ely perforate of complete.	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated, 5 . Stimulate if	hole (a 13-3/8" s est to 500 Run 9-5/8" 51. 7/8" when ad Logging 5-1/2" csg necessary	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce-
 If condutorial or cable MIRU rota MIRU rota Nipple up Drill 12-cement with the second secon	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho total depth 900 em Test shows o rcial oil or gas cross prospectionely ely perforate of complete.	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper ly, give pertinent d	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated by Mu is indicated f Stimulate if	hole (a 13-3/8" s est to 500 Run 9-5/8" i. 7/8" when ad Logging 5-1/2" csg necessary necessary	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- EE 111973 the bone and preprint providently and true vertical depth. Give blogget
 If condu- or cable MIRU rot. Nipple u Drill 12- cement w. Nipple u Drill out Drill out Drill to Drill Stee If commented ad Selective Test and ABOVE BPACE DESCRIPE Deventer program, if any SEGNED UP: 1	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas cross prospectively perforate of complete. PROPOSED PROGRAM: If p drill or deepen directional	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper ly, give pertinent d	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated, 5 . Stimulate if	hole (a 13-3/8" s est to 500 Run 9-5/8" i. 7/8" when ad Logging 5-1/2" csg necessary necessary	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- EB 111973 the ions and proposition of the borgen
 If condu- or cable MIRU rot. Nipple u Drill 12- cement w. Nipple u Drill out Drill out Drill to Drill Stee If commented ad Selective Test and ABOVE BPACE DESCRIPE Deventer program, if any SEGNED UP: 1	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows of rcial oil or gas cross prospection ely perforate of complete.	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper Ny, give pertinent d	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated by Mu is indicated f Stimulate if petroleum Engi	hole (a 13-3/8" s est to 500 Run 9-5/8" i. 7/8" when ad Logging 5-1/2" csg necessary necessary	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- E 111973 the sone and proposed of the blogged and true verticed depth. Give blogged
 If condu- or cable MIRU rot. Nipple u Drill 12- cement w. Nipple u Drill out Drill out Drill to Drill Stee If commented ad Selective Test and ABOVE BPACE DESCRIPE Deventer program, if any SEGNED UP: 1	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas cross prospectively perforate of complete. PROPOSED PROGRAM: If p drill or deepen directional	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper Ny, give pertinent d	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated by Mu is indicated f Stimulate if petroleum Engi	hole (a 13-3/8" s est to 500 Run 9-5/8" i. 7/8" when ad Logging 5-1/2" csg necessary necessary	approx. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- E 111973 the sone and proposed of the blogged and true verticed depth. Give blogged
 If condut or cable MIRU rot. Nipple u Drill 12- cement w. Nipple u Drill 12- cement w. Nipple u Drill out Drill to Drill Ste If commented ac Selective Test and ABOVE SPACE DESCRIBE mented is to devente program, if any SHONED UP: INTERNET NO.	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas cross prospectively perforate of complete. PROPOSED PROGRAM: If p drill or deepen directional	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper ly, give pertinent d	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated by Mu is indicated f Stimulate if petroleum Engi	hole (a 13-3/8" s est to 500 Run 9-5/8" i. 7/8" when ad Logging 5-1/2" csg necessary necessary	pprox. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- EB 111973 the bone and proposed refusible the blogge 2-8-73
 If condu- or cable MIRU rot. Nipple u Drill 12- cement w. Nipple u Drill 12- cement w. Nipple u Drill out Drill to Drill Sta If commented ac Selectiva Selectiva Test and ABOVE BPACE DESCRIBEE Description if any Suborned is to account of the second of th	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas cross prospectively perforate of complete. PROPOSED PROGRAM: If p drill or deepen directional	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper lly. give pertinent d TITLE	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated by Mu is indicated f Stimulate if petroleum Engi	hole (a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when ad Logging 5-1/2" csg necessary necessary necessary necessary	pprox. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- EB 111973 relive bone and proposed are blogged and true veriled deliber Give blogged Darm 2-8-73 Darm 2-8-73
 If condu- or cable MIRU rot. Nipple u Drill 12- cement w. Nipple u Drill 12- cement w. Nipple u Drill out Drill to Drill Sta If commented ac Selectiva Selectiva Test and ABOVE BPACE DESCRIBEE Description if any Suborned is to account of the second of th	ctor needed, se tool rig. ary rig. Drill p 12" double rai -1/4" hole to 2 ith 300 sx. p 10" double rai t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas cross prospectively perforate of complete. PROPOSED PROGRAM : If p drill or deepen directional	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper Ny, give pertinent d	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated by Mu is indicated f Stimulate if	hole (a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when ad Logging 5-1/2" csg necessary necessary necessary necessary	pprox. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- EB 111973 the bone and proposed refusible the blogge 2-8-73
 If condu- or cable MIRU rot. Nipple u Drill 12- cement w. Nipple u Drill 12- cement w. Nipple u Drill out Drill to Drill Sta If commented ac Selectiva Selectiva Test and ABOVE BPACE DESCRIBEE Description if any Suborned is to account of the second of th	ctor needed, se tool rig. ary rig. Drill p 12" double ran -1/4" hole to 2 ith 300 sx. p 10" double ran t with 8-3/4" ho total depth 90 em Test shows o rcial oil or gas cross prospectively perforate of complete. PROPOSED PROGRAM: If p drill or deepen directional constant office use	t & cmt 20" 17-1/2" hol m-type Blowc 650'. Run e m-type BOP. ole. Reduce 00'. Run el f oil or gas s production ve pay zones csg and test proposal is to deeper Ny, give pertinent d	conductor in 26" e to 500'. Run put Preventer, te electric logs. R Test to 1000 ps hole size to 7- ectric logs. indicated by Mu is indicated by Mu is indicated f Stimulate if petroleum Engi	hole (a 13-3/8" s est to 500 Run 9-5/8" si. 7/8" when ad Logging 5-1/2" csg necessary necessary necessary necessary	pprox. 30' with rathole surface csg. & circ cmt psi. intermediate csg & conditions warrant. Unit while drilling. will be run and ce- EB 111973 relive bone and proposed are blogged and true veriled deliber Give blogged Darm 2-8-73 Darm 2-8-73





Wayne A. Juger

DONALD DE ALESE A DE BROISTERHE ENOINES LANE SCHUDYORE THE CRUCELL SET MELISE DOMALO H. WIESE AND CO."

A well location size situate approximately 15 siles and 27 45 Truth or Consequences, Sterra County New Memory Felde located in Section 17, 2548, 218, U.S.C.L.D. Surveys, and Sells were particularly described as follows, to wit:

Beginning at the Southeast server of said Manifest T. Wils. RIN U.S.Q.L.O. Surveys marked by a U.S.G.L.O. Broost Capit Mismas N.18*25'W. 2087.33 feet to the Well lowsteen site marked of a group inch iron rod.

DRILLING WELL PROGNOSIS

OPERATOR:	BEARD OIL COMPANY
WELL:	-DARKHORSE-FEDERATE 1- Garredo del Muerto Unit
LOCATION:	1980' FSL and 660' FEL (NE/4 SE/4) Sec- tion 17-145-1W, Sierra County, New Mexico
TOTAL DEPTH:	9000' El Paso Test

ELEVATION:

•

۹.

4820' Ground Level (Est. from Topo map)

.

DRILLING, CASING AND CEMENTING:

Depth	Csg. Size	Hole Size	Cement
*30±	20"	26"	Circ
500'	13 3/8" 48# H	17-1/2"	600 sx Circulated
2650'	9-5/8" 36# K	12-1/4"	300 sx
9000'	5-1/2" vary	7-7/8"	300 sx

NOTE: May want to rathole ahead below 9-5/8" @ 2650' w/ 8-3/4" hole, and reduce to 7-7/8" when conditions warrant.

*Conductor will be set if needed.

MUD PROGRAM:

Interval	Mud Type	Mud Weight	Water Loss
0- 500'	Native	8.3+	NC
500-2650'	Native & Lo Solids	8.4-9.1	NC
2650-9000	Lo Solids	8.9-9.3	NC - 6CL

LOGGING:

Log Type	From	То	Scale
Dual Induction	2650'	9000'	2" = 100' and 5" = 100' Detail 2" = 100' and 5" = 100' Detail
FDC-GR-Caliper			5" = 100' Detail Sec. of Interest 5" = 100' Detail Sec. of Interest
No Log in Surface	Hole.		

DRILL STEM TEST:

Drill Stem Test will be run in any prospective zone in which valid shows of oil and/or gas are encountered.

DRILLING WELL PROGNOSIS BEARD OIL COMPANY -DARKHORSE=FEDERAL #1 /- Course do dof Junit. NE/4 SE/4 Section 17-145-1W Sierra County, New Mexico Page - 2 -

CORING:

٩

None anticipated.

SAMPLES:

1. 30' samples in surface hole - 0-500'.

2. 10' samples from 500' to 9000' TD.

MUD LOGGING UNIT:

One man mud logging unit will be used from out from under surface casing @ 500' to total depth.

DRILLING TIME LOG:

Contractor will install drilling time recorder at surface and maintain to total depth. One copy of Drilling Time Log will be delivered to Beard Oil Company.

DEVIATION SURVEYS:

Depth	Maximum Allowance	Maximum Allowance	Survey
	Deviation	Change	Frequency
0- 500'	1°	1°/100'	500'
500-2650'	3°	1°/100'	500'
2650-9000'	7°	1°/100'	500' or trip

WELL CONTROL EQUIPMENT:

- 1. Two 12" Series 600 ram-type, hydraulically actuated, blowout preventers, nippled up on 13-3/8" surface casing. Test BOP and surface pipe to 500 psi before drilling out from under surface.
- 2. Two 10" Series 900 ram-type and one 10" Series 900 bag-type, hydraulically actuated, blowout preventers, nippled up on 9-5/8" intermediate casing. Test BOP and intermediate pipe to 1000 psi before drilling out from under intermediate casing.
- 3. Blowout preventers will be operated daily, or on each trip while drilling.
- 4. Install Series 900 dual choke manifold to operator's specification.
- 5. Drill pipe safety valve on floor at all times below surface casing at 500'.
- 6. Kelly cock below surface casing at 500'.

DRILLING WELL PROGNOSIS BEARD OIL COMPANY

BEAKD OIL COMPANY DARKHORSE FEDERAL #1 1- Gernedo del Inciento NELA SELA Soction 17-145-1W Unit NE/4 SE/4 Section 17-145-1W Sierra County, New Mexico Page - 3 -

ESTIMATED FORMATION TOPS:

Mesaverdc	2025'
Dakota Sand	2450 '
Permian (San Andreas)	2635'
Pennsylvanian	5635'
Mississippian	8000 '
Devonian-Silurian	8125'
Ordovician (Montoya-El Paso)	8260'
	8675 '
Total Depth	••••

COMPLETION:

If commercial production is found, 5-1/2" casing will be cemented through pay zone and selectively perforated in zones selected from the open hole logs.

SUPERVISION:

Telephone daily drilling reports to Beard Oil Company, Oklahoma City, Mrs. Garrett, Area Code 405 528 2323.

Geological: F. H. Hartman - Office: 405 528 2323 405 843 3164 Home: Ivan D. Allred, Jr. - Office: 405 528 2323 Drilling: 405 942 6053 Home: C. F. Allred, Jr. - Office: 405 828 4456

Home: 405 375 5638

BEARD OIL COMPANY

Suite 200, 2000 Classen Building 2000 Classen Boulevard OKLAHOMA CITY, OKLAHOMA 73106

February 9, 1973

Mr. Jim Knauf United States Geological Survey P. O. Box U Artesia, New Mexico 88210

Re: Beard Oil Company Barkhorse-Federal-No. 1- Journals del Muesto Unit (Federal Lease No. NM-97291) C NE SE, Sec. 17-14S-1W, Sierra County, New Mexico

Dear Mr. Knauf:

In connection with the proposed drilling of the captioned well, the following is an outline of our program with respect to the twelve points on which you have requested additional information:

- 1. <u>Existing roads</u>: See attached map.
- 2. <u>Planned access roads</u>: See attached map.
- 3. Location of wells: See Surveyor's Plat attached.
- 4. <u>Lateral roads to wells locations</u>: See attached map and Surveyor's Plat.
- 5. Location of tank batteries and flowlines: If production is found tank battery will be located on the edge of the drilling pad.
- 6. Locations and types of water supply: If it appears that we can get a water well on the location a water well will be drilled. If so, the water well permit will be obtained. If it does not appear that a water well can be made, then water will be purchased and transported to the location.
- 7. <u>Methods for handling waste disposal</u>: Any waste fluid produced will be disposed of in a manner satisfactory to the Governmental Regulatory Agencies.
- 8. Location of camps: None anticipated.
- 9. Location of airstrips: None anticipated.

Mr. Jim Knauf U. S. Geological Survey February 9, 1973 Page 2

- 10. Location layout to include position of the rig, mud tanks, reserve pits, burn pits, pipe racks, etc.: See attached sketch.
- 11. <u>Plans for restoration of the surface</u>: If the well is a producer or a dry hole the pits will be filled immediately if possible, or fenced until dry enough to backfill; land will be levelled and surface restored.
- 12. Any other information which the Approving Official considers essential to his assessment of the impact on the environment: The surface of this location is Public Domain land. A Grazing Lease is held by Buck Greer, P. O. Box 448, Truth or Consequences, New Mexico, 87901.

Very truly yours, BEARD OIL COMPANY

for O. aller /-

Ivan D. Allred, Jr. Petroleum Engineer

IDA:cd

Attachments

			40 15 2592
1			
	.02/	2475 2476	
	t.	PP 7 21 21 21 21 21 21 21 21 21 21 21 21 21	
	Reserve	SH MUL Ppmp	
		жууда Суу Суу Сууда Сууда Сууда Сууда Сууда Сууда Сууда Сууда Суу	рди 7320
		290'	20047104

15 25 21

∪ว แรร≽ เ ท_เองสแลง!

