CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: TEXACO E+P, /NC. Well: B.F. HARRISON B" WELL NO. 16
Contact: MIKE PIERCE Title: CONSULTANT (PEAK) Phone: 392.190015
DATE IN FEB 11,94 RELEASE DATE FEB 25,94 DATE OUT MAR 21,94
Proposed Injection Application is for: WATERFLOOD Expansion Initial
Original Order: R Secondary Recovery Pressure Maintenance
SENSITIVE AREAS X SALT WATER DISPOSAL
WIPP Capitan Reef Commercial Operation
Data is complete for proposed well(s)? Additional Data
AREA of REVIEW WELLS
17 Total # of AOR
465 Tabulation Complete N/A Schematics of P & A's
45 Cement Tops Adequate NA AOR Repair Required
INJECTION INFORMATION
Injection Formation(s) Saw ANDRES
Source of Water <u>AREA TEXACO WELLS - S.A. TRO, GRB, EZC</u> Compatible <u>463</u> FROOF OF NOTICE
Copy of Legal Notice Information Printed Correctly
Correct Operators
Objection Received Set to Hearing Date
NOTES:
APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL 45 COMMUNICATION WITH CONTACT PERSON:
1st Contact: Y Telephoned Letter 3.21.94 Date Nature of Discussion COPY OF LEGAL
2nd Contact: Telephoned Letter Date Nature of Discussion
3rd Contact:TelephonedLetter Date Nature of Discussion



CONSULTING SERVICES

P.O. BOX 636 HOBBS, NEW MEXICO 88240 OFFICE (505) 392-1915 ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS



February 8, 1994

Mr. David Catanach Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504-2088

> Re: Texaco Exploration and Production Inc. Harrison B. F. 'B' No. 16 SWD Injection Application Sec. 9 - T23S - R37E Lea County, New Mexico

Dear David:

Please find enclosed two copies of Texaco Producing Inc.'s application for injection. We propose to drill this well as a San Andres SWD.

I will provide proof of publication as soon as possible.

If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and consideration.

Sincerely.

Michael L. Pierce

Peak Consulting Services

STATE OF NEW MEXICO STATE OF NEW MEXICO DEPARTMENT

of the earlier submittal.

OIL CONSERVATION DIVISION POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE NEW MEXICO 8/501

ADDLICATION	C: O D	AHTHORIZATION	TO	INTECT	

I.	Purpose: Secondary Recovery Pressure Maintenance Discosal Storage Application qualifies for administrative approval? X yes no
II.	Operator: TEXACO EXPLORATION AND PRODUCTION INC.
	Address: 205 East Bender Hobbs, NM 89240
	Contact party: M.L. Pierce (Agent) Phone: 505-392-1915
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? yes no If yes, grant the Division order number authorizing the project
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
VIII.	Attach appropriate geological data on the injection zone including appropriate lithologi detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
an.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
xīv.	Certification
	I hereby certify that the information submitted with this application is true and correcto the best of my knowledge and belief.
	Name: Michael L. Pierce PEAK CONSULTING SERVICES Title Agent for TEXACO E & P INC.
	Signature:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this applicati The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the wel
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

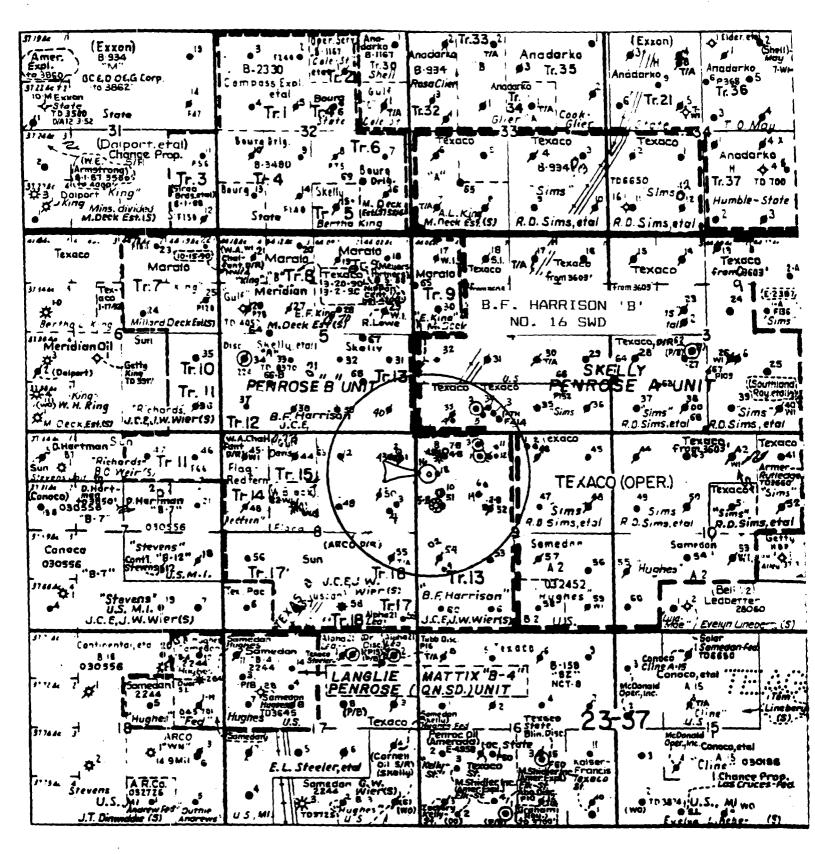
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



TEXACO EXPLORATION AND PRODUCTION INC.

B. F. Harrison 'B' No. 16 SWD 996' FNL & 531' FWL Sec. 9 - T23S - R37E Lea County, New Mexico



FORM C - 108 cont.

Part III. A

- 1.) B.F. Harrison 'B' No. 16 SWD 996' FNL and 531' FWL Sec. 9 T235 R37E Unit D Lea County, New Mexico
- 2.) See attached wellbore schematic.
- 3.) Propose to run approximately 4150' of 2 7/8" plastic lined tubing.
- 4.) Propose to use a tension Packer as a seal.

 and load the casing annulus with packer fluid.

Part III. B

- 1.) The injection interval will be in the lower San Andres. and there is no San Andres production from this interval in the immediate area. (The B.F. Harrison 'B' No. 18 produces from the upper San Andres. There will be approximately 200' of separation between the injection interval and the producing San Andres perfs.)
- 2.) The injection interval will be approximately 4200' to 5000' and will be open hole.
- 3.) This well will be drilled as a SWD.
- 4.) See wellbore schematic
- 5.) There is production from above and below the San Andres in this area. The Langlie Mattix 7-Rivers-Queen Gravburg at approximately 2800' to 3800'. San Andres at 3322', Teague Ellenberger at 10,000', Teague Fusselman at 8800', Teague Devonian at 7500'. Teague Blinebry at 5600', and Lea Undesignated Group 2 at 5100'.

Part VII.

- 1.) Proposed average daily injection will be 2000 bbls/ day. Maximum will be 5000 bbls./ day.
- 2.) The system will be closed.
- 3.) The average injection pressure will be O(Vacuum). The maximum will not exceed the limits set forth by the OCD.

- 4.) The source of the water will be from Texaco Exploration and Production Inc. operated wells in the immediate area.
- 5.) The San Andres is productive within one mile of the Harrison B. F. 'B' No. 16 SWD well.

Part VIII

The injection interval is the lower San Andres, and is composed of primarily limestone and porous dolomite with occasional anhydrite and thin shale stringers, and is approximately 1200' thick. The top of the San Andres is at approximately 3822'. This entire area is overlain by the Quaternary Alluvium. The Ogalalla is the main fresh water source in this area, at a depth of 100' to 300' deep.

Part IX

The disposal interval will be treated with a breakdown acid job.

Part X

The logs will be submitted when the well is completed.

Part XI

There are active fresh water wells within one mile of the Harrison B. F. 'B' No. 16 SWD location. The analysis for these wells are attached.

Part XII

We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

LIST OF WELLS WHICH PENETRATE THE SAN ANDRES

OPERATOR		WELL NAME & NUI	MBER U/L	SEC	TWN	RNG	TD
TEXACO EXPL		R R SIMS # 1	Ν	4	23	37	10254
11	11	R R SIMS # 2	Ν	4	23	37	8965
11	11	R R SIMS # 3	Ν	4	23	37	8950
11	i i	R R SIMS # 4	М	4	23	37	7700
11	11	B F HARRISON #	1 C	9	23	37	10250
11	H	" #	з с	9	23	37	8907
! 3	II	· · · · · · · · · · · · · · · · · · ·	4 D	9	23	37	10402
H	11	· · · · · · · · · · · · · · · · · · ·	7 D	9	23	37	9000
11	+1		8 D	9	53	37	5400
11	t)	" #	5 E	9	53	37	10307
li .	11	" " #	2 F	9	23	37	10258
11	**	" " #	6 F	9	53	37	8750
1)	11		9 L	9	53	37 37	
ri .	(1		10 E	7 9		-	6000
U	14				53	37	5448
11	11	#	11 C	9	23	37	5400
11		#	12 C	9	23	37	8950
••	••	# #	18 D	9	23	37	5000

LIST OF WELLS WHICH DO NOT PENETRATE THE SAN ANDRES

OPERATOR	WELL NAME & NUM	IBER			U/L	SEC	TWN	RNG
TEXACO EXFL & PROD INC.	SKELLY PENROSE	A UNIT	##	33 34	M N	4	23	37
OXY USA INC.	SKELLY PENROSE	B UNIT	#	40	P	5	23	37
11	11	11	#	43	Α	8	23	37
tt.	11	11	#	49	G	8	23	37
11	11	11	#	50	H	8	23	37
II.	11	11	#	55	I	8	23	37
u .	f1	11	#	63	В	8	23	37
ti	11	11	#	74	В	8	23	37
TEXACO EXPL & PROD INC.	SKELLY PENROSE	A UNIT	#	46	В	9	23	37
11	***	i)	#	47	G	9	23	37
DXY USA INC.	SKELLY PENROSE	B UNIT	#	41	С	9	53	37
11	ti .	11	#	42	D	9	53	37
II .	11	11	#	51	Ε	9	23	37
11	н	11	#	52	F	9	23	37
ti .	11	11	#	53	K	9	23	37
II .	11	11	#	54	L	9	23	37

OPERATOR TEXACO EXPLORATION AND PRODUCTION INC.		0 ate 1-14-94
B.F. HARRISON "B" NO. 16 SWD	WELL Na 16	GEATON 996' FNL & 531' FV/L

sec. 9-T23S-R37E Lea County, New Mexico

77779	, , , , , , , , , , , , , , , , , , , 	PROPOSED CONFIGURATION	
		85/g " casing set at 1190 ' with 650 sx of Hole size 12/4 " Sufficent Circula	ceme to
		5/2 " casing set at 4200 ' with sx of Hole size 778 " Sufficent to Circulate	cemen:
		Total Depth 5ωο ' Hole size 7% "	

TEXACO EXPL & PROD INC.
B F HARRISON "B" #1
UNIT: C SEC 9 T 23 S R 37 E
593/FNL 1707/FWL
TD: 10250

TABULAR DATA

SURFACE CASING
SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2
CEMENTED WITH 1400
TOC: SURFACE DETERMINED BY: CIRC 25 SX

INTERMEDIATE 1 CASING
SIZE: 9 5/8 SET AT: 3745 HOLE SIZE: 12 1/4
CEMENTED WITH 1950
TOC: SURFACE DETERMINED BY: *
DV TOOL 0: 1211
IN ONE STAGE 1950 SX. CIRC 235 SX

PRODUCTION CASING
SIZE: 7 SET AT: 8900 HOLE SIZE: 8 3/4
CEMENTED WITH 1125
TOC: SURFACE DETERMINED BY: **
DV TOOL 6: 6976
1 ST STAGE 375 SX.
2 ND STAGE 750 SX. CIRC 10 SX

PRODUCING INTERVAL: ELLENBURGER POOL: TEAGUE; ELLENBURGER, NORTH PERFS: 10182 TO 10226

DU TOOL 6976

AV TOOL 1211

PERFS 10182 -10226

B F HARRISON "B" #2 UNIT: F SEC 9 T 23 S R 37 E 50' 1980/FNL 1800/FWL 10258 TD: TABULAR DATA SURFACE CASING -SIZE: 13 3/8 SET AT: 1175 HOLE SIZE: 17 1/2 CEMENTED WITH 1400 TOC: SURFACE DETERMINED BY: CIR 300 SX DV TOOL 1244' INTERMEDIATE 1 CASING -SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4 CEMENTED WITH 1750 TOC: 50 DETERMINED BY: CALC DV TOOL @: 1244 1 ST STAGE 1400 SX. 2 ND STAGE 350 SX. DID NOT CIRC PRODUCTION CASING -SIZE: 7 SET AT: 10258 HOLE SIZE: 8 3/4 3750 CEMENTED WITH 1000 TOC: 4229 DETERMINED BY: CALC 4229 DV TOOL @: 7070 1 ST STAGE 300 SX. 2 ND STAGE 700 SX. DID NOT CIRC PRODUCING INTERVAL: ELLENBURGER POOL: TEAGUE; ELLENBURGER, NORTH PERFS: 10204 TO 10252 DV TOOL 7070 PERFS 10209-10252

TEXACO EXPL & PROD INC.

TEXACO EXPL & PROD INC.

B F HARRISON "B" #3

UNIT: C SEC 9 T 23 S R 37 E

340/FNL 1700/FWL

TD: 8907

TABULAR DATA

SURFACE CASING
SIZE: 13 3/8 SET AT: 1165 HOLE SIZE: 17 1/2
CEMENTED WITH 1100
TOC: SURFACE DETERMINED BY: CIRC 161 SX

INTERMEDIATE 1 CASING
SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4
CEMENTED WITH 1600
TOC: 200 DETERMINED BY: TEMP SURVEY
DV TOOL 0: 1241
1 ST STAGE 1150 SX. CIRC 247 SX
2 ND STAGE 450 SX. DID NOT CIRC

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 8907 HOLE SIZE: 8 3/4
CEMENTED WITH 2200
TOC: SURFACE DETERMINED BY: CIRC 96 SX
DV TOOL 0: 6693
1 ST STAGE 750 SX. CIRC 250 SX
2 ND STAGE 1450 SX. CIRC 96 SX

PRODUCING INTERVAL: FUSSELMAN POOL: TEAGUE; FUSSELMAN, NORTH PERFS: 8786 TO 8824

DV TOOL 6993

PERFS 8786-8824

200

TEXACO EXPL & PROD INC.
B F HARRISON "B" #4
UNIT: D SEC 9 T 23 S R 37 E
660/FNL 800/FWL
TD: 10402

TABULAR DATA

SURFACE CASING
SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2
CEMENTED WITH 1100
TOC: SUPERCE DEPENDINED BY: CIRC 284 SY

TOC: SURFACE DETERMINED BY: CIRC 284 SX

INTERMEDIATE 1 CASING
SIZE: 9 5/8 SET AT: 3755 HOLE SIZE: 12 1/4
CEMENTED WITH 1950
TOC: SURFACE DETERMINED BY: CIRC 100 SX
DV TOOL @: 1149

DV TOOL 0: 1149

1 ST STAGE 550 SX. CIRC 150 SX
2 ND STAGE 1400 SX. CIRC 100 SX

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 10402 HOLE SIZE: 8 3/4
CEMENTED WITH 2600
TOC: SURFACE DETERMINED BY: CIRC 66 SX
DV TOOL 0: 6965
1 ST STAGE 1250 SX. CIRC 300 SX
2 ND STAGE 1350 SX. CIRC 66 SX

PRODUCING INTERVAL: ELLENBURGER POOL: TEAGUE; ELLENBURGER, NORTH PERFS: 10220 TO 10276

DV TOOL 6965

DV TOOL 1149

PERES 10220-10276 TEXACO EXPL & PROD INC.
B F HARRISON "B" #6
UNIT: F SEC 9 T 23 S R 37 E
1654/FNL 1700/FWL 8950 TD:

TABULAR DATA

SURFACE CASING : SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2 CEMENTED WITH 900

TOC: SURFACE DETERMINED BY: CIRC 140 SX

OU TOOL 1089 INTERMEDIATE 1 CASING = SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4 CEMENTED WITH 1625 TOC: SURFACE DETERMINED BY: CIRC 40 SX DV TOOL 0: 1089 1 ST STAGE 1150 SX. CIRC 150 SX 2 ND STAGE 475 SX. CIRC 85 SX

> PRODUCTION CASING -SIZE: 5 1/2 SET AT: 8950 HOLE SIZE: 7 7/8 CEMENTED WITH 1700 TOC: SURFACE DETERMINED BY: CIRC 60 SX DV TOOL 0: 7007 1 ST STAGE 450 SX. CIRC 40 SX 2 ND STAGE 1250 SX. CIRC 60 SX

PRODUCING INTERVAL: FUSSELMAN POOL: TEAGUE; FUSSELMAN, NORTH PERFS: 8868 TO 8870

PERFS 8868-8870

DU TOOL 7007

TEXACO EXPL & PROD INC.
B F HARRISON "B" #7
UNIT: D SEC 9 T 23 S R 37 E
510/FNL 800/FWL
TD: 9000

TABULAR DATA

SURFACE CASING SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2 CEMENTED WITH 900

TOC: SURFACE DETERMINED BY: CIRC 134 SX

INTERMEDIATE 1 CASING SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4 CEMENTED WITH 1325

TOC: SURFACE DETERMINED BY: CIRC 130 SX

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 9000 HOLE SIZE: 7 7/8
CEMENTED WITH 1725
TOC: 274 DETERMINED BY: TEMP SURVEY
DV TOOL 0: 7006

1 ST STAGE 475 SX. CIRC 150 SX 2 ND STAGE 1250 SX. DID NOT CIRC

PRODUCING INTERVAL: FUSSELMAN POOL: TEAGUE; FUSSELMAN, NORTH PERFS: 8848 TO 8878

PERFS 8884-8900 SQ W/ 100 SX

DV TOOL 7006

PERFS 8848-8878

PERFS 8884-8900 50 100 51 TEXACO EXPL & PROD INC.
B F HARRISON "B" #8
UNIT: D SEC 9 T 23 S R 37 E
510/FNL 660/FWL
TD: 5400

TABULAR DATA

SURFACE CASING
SIZE: 11 3/4 SET AT: 1155 HOLE SIZE: 14 3/4
CEMENTED WITH 500

TOC: SURFACE DETERMINED BY: CIRC 15 SX PRODUCTION CASING

SIZE: 5 1/2 SET AT: 5400 HOLE SIZE: *
CEMENTED WITH 2280
TOC: SURFACE DETERMINED BY: CIRC 160 SX
DV TOOL @: 3750

DV TOOL 0: 3750 1 ST STAGE 350 SX. CIRC 58 SX 2 ND STAGE 1930 SX. CIRC 160 SX

PRODUCING INTERVAL: GLORIETA-UPPER PADDO POOL: LEA UNDESIGNATED; GROUP 2 PERFS: 5108 TO 5286

DU TOOL 3750

PERFS 5108-5286

TEXACO EXPL & PROD INC.
B F HARRISON "B" #9
UNIT: L SEC 9 T 23 S R 37 E
1840/FSL 670/FWL
TD: 6000

TABULAR DATA

SURFACE CASING
SIZE: 11 3/4 SET AT: 1180 HOLE SIZE: 14 3/4
CEMENTED WITH 500
TOC: SURFACE DETERMINED BY: 1" TO SURFACE

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 6000 HOLE SIZE: *
CEMENTED WITH 3610
TOC: 1200 DETERMINED BY: TEMP SURVEY
DV TOOL 0: 3750
1 ST STAGE 500 SX. DID NOT CIRC
2 ND STAGE 2910 SX. DID NOT CIRC

PRODUCING INTERVAL: LWR PADDOCK-BLINEBRY POOL: TEAGUE; BLINEBRY, NORTH (GAS) PERFS: 5602 TO 5826

SURFACE CASING DID NOT CIRC CEMENT TOC @ 50' BY TEMP SURVEY 1" TO SURFACE DRILLED 11" HOLE TO 3611 DRILLED 7 7/8 HOLE TO 6000

1180 1200 OV TOOL 3750 PERFS 5602-5826

TEXACO EXP. + Prod. FAC.		12-20-93	
B.F HARRISM B	WELL NO. LOCATION /D /780	'FNL + 660' FWL	
		9-7235-K37E + E	
85/8 " casing Hole size/21/5		with <u>650</u> sx of	cement
$\int_{2}^{\infty} casing se$		th <u>1325</u> sx of	cement

TEXACO EXPL & PROD INC.
B F HARRISON "B" #5
UNIT: E SEC 9 T 23 S R 37 E
1950/FNL 560/FWL
TD: 10307

TABULAR DATA SURFACE CASING 300 SIZE: 13 3/8 SET CEMENTED WITH 1100 SET AT: 1180 HOLE SIZE: 17 1/2 TOC: SURFACE DETERMINED BY: CIRC 298 SX INTERMEDIATE 1 CASING = SIZE: 9 5/8 SET AT: 3685 HOLE SIZE: 12 1/4 CEMENTED WITH 1450 TOC: 300 DETERMINED BY: TEMP SURVEY OU TOOL 1207 DV TOOL 0: 1207 1 ST STAGE 1150 SX. CIRC 85 SX 2 ND STAGE 300 SX. DID NOT CIRC PRODUCTION CASING = SIZE: 5 1/2 SET AT: 10307 HOLE SIZE: 8 3/4 CEMENTED WITH 2800 TOC: SURFACE DETERMINED BY: CIRC 250 SX DV TOOL 0: 7017 1 ST STAGE 1150 SX. CIRC 175 SX 2 ND STAGE 1650 SX. CIRC 250 SX PRODUCING INTERVAL: BLINEBRY POOL: TEAGUE; BLINEBRY, NORTH (GAS) PERFS: 5748 TO 5758 08/12/91 PERF 10260-10274 08/24/91 SET CIBP @ 10220 W/ 35' CEMENT 08/27/91 PERF 8900-8928 08/30/91 SET CIBP @ 8845 09/12/91 SET CIBP @ 7450 W/35' CEMENT PERFS 5798-5758 DU TOOL 7017 1.11 CIBP 7450 W/35 C PERFS 7500-7536 50 250 5X CIBP 8845 PERFS 8900-8928 CIBP 10220 W/36'C PERFS 10260-102.74

OPERATOR TOYAL EXA	! a Pred. Inc		DATE /2-20-93	
LEASE BF HANKIS	m b	WELL No. LOCATION	FNL + 2100' FWL	
		- بر میرونی برخورسانی برخورسانی این از در میرونی این از در میرونی این از در میرونی این از در میرونی این از در م	9- T23-S K37 E	· ·
		//9A	with 457 sy of	coment
	Hole size <u>/2 //</u>	u u	with <u>650</u> sx of	Cement
	perf 5204 - 52 $5/2 casing s$ $Total Depth 54$	2/2 et at <u>5400</u> ' w	ith <u>/220</u> sx of	cement
	Total Depth 54	Hole size	ith 1220 sx of	<i>TS</i>

OPERATOR TEXACO EXPL. +	Prod: Tas			DATE 12-20-93	
LEASE BF. HARRISON B	71.00.	WELL Na.	LOCATION 760' FN4 +		
			Sec 9-723 Unit C		· ·
	113/4" Casing 143/4" hole s	5e+ @ 5i`ze	1180' with	750 5×5 Cemsunt Circuli	cement Hed
	<u>8 %</u> " casing Hole size <u>//</u>		3750 'with		cement
	perf 8011-88	52 4			
	<u>5½</u> " casing se Total Depth <u>89</u> S	t at <i>8</i> 4	<u>950</u> ' with <u>Z</u> 1e size <u>7%</u>	255 sx of	cement 7015 Noula-le 0

NATOR FEXACO EXPLORATION AND PRODUCT	ION INC.	DATE 12-20-93
ARRISON B. F. "B"	well no location 18 990 FNL 8	% 660 FVIL
		23S- R37E ty New Mexico
BLADEN	HEAS SGVEEZE (W	750 pSI w/
13 3/8 " Hole size	i ·	with 650 sx ofceme
pert s	3896 - 3994 4650 + 30' CMT 1686 - 4738 4840' + 30' CMT 860 - 4874	4
	ing set at <u>5000</u> ' wit	th <u>1225</u> sx of cerr 7½ " TOC by TS @ 13

TEXACO EXPL & PROD INC.
R R SIMS #1
UNIT: N SEC 4 T 23 S R 37 E
330/FSL 2308/FWL
TD: 10254

TABULAR DATA

SURFACE CASING
SIZE: 13 3/8 SET AT: 1180 HOLE SIZE: 17 1/2
CEMENTED WITH 1400
TOC: SURFACE DETERMINED BY: CIRC 400 SX

INTERMEDIATE 1 CASING
SIZE: 9 5/8 SET AT: 3800 HOLE SIZE: 12 1/4
CEMENTED WITH 1750
TOC: SURFACE DETERMINED BY: CIRC 54 SX
DV TOOL 0: 1222
IN ONE STAGE 1750 SX. CIRC 54 SX

DV TOOL 1222

PRODUCTION CASING
SIZE: 7 SET AT: 8690 HOLE SIZE: 8 3/4
CEMENTED WITH 1450
TOC: SURFACE DETERMINED BY: *
DV TOOL 4: 6982

DV TOOL 0: 6982 1 ST STAGE 495 SX. CIRC 154 SX 2 ND STAGE 955 SX. CIRC 60 SX

PRODUCING INTERVAL: ELLENBURGER POOL: TEAGUE; ELLENBURGER, NORTH PERFS: 10186 TO 10238

DV TOOL 6982

PERFS 10186-10238

TEXACO EXPL & PROD INC.
R R SIMS #2
UNIT: N SEC 4 T 23 S R 37 E
660/FSL 1650/FWL
TD: 8965

TABULAR DATA

SURFACE CASING
SIZE: 13 3/8 SET AT: 1150 HOLE SIZE: 17 1/2
CEMENTED WITH 900
TOC: SURFACE DETERMINED BY: CIRC 56 SX

INTERMEDIATE 1 CASING SIZE: 9 5/8 SET AT: 3750 HOLE SIZE: 12 1/4 CEMENTED WITH 1715

TOC: STREET DETERMINED BY: EST.

PRODUCTION CASING
SIZE: 5 1/2 SET AT: 8780 HOLE SIZE: 7 7/8
CEMENTED WITH 2275
TOC: 400 DETERMINED BY: ESTIMATED
DV TOOL @: 7332
1 ST STAGE 425 SX. DID NOT CIRC
2 ND STAGE 600 SX. DID NOT CIRC

PRODUCING INTERVAL: DEVONIAN POOL: TEAGUE; DEVONIAN, NORTHWEST PERFS: 7508 TO 7598

* 9 5/8 CEMENTED WITH 1315 SX DID NOT CIRCULATE, CBL TOC 0 1875 SQUEEZED BACK SIDE 400 SX ** 5 1/2 CASING SQUEEZED ANNULUS WITH 1250 SX EST TOC 400'

BU TOOL 7332

1170

PERFS 7508-7598

OPERATOR TEXACO EXO	beatin + Prediction	Tuc.	DATE /2-20-93
LEASE R. R. Sim	5 A	WELL NO LOCATION	+ 2175 FWL
		Sec 4 Unit	T235-K37E N
	//3/4" CASING SE	1 @ 1190' u	of 750 5x5 Ceneut Cement Circulated
	85/8 " casing s Hole size //	set at <u>3750</u> ' with	th <u>/675</u> sx of cement 6y 75 @ 700 ⁽
	penf 8784-8	8824 _, 8832 _, .	8 83 6
	5/2 " casing set Total Depth <u>8950</u>	at <u>8950</u> ' with _ _' Hole size <u>7</u>	1900 sx of cement 1/8 " DV @ 6980' Cement Circulates on sacud stage

OPERATOR TEXACO EXPL	. + Prod. Inc			DATE 12-20-93	
R. R. Sims	Α	WELL NO. U	330'FSL +	960' FWL	
			Sec 4- T	235- R37E	
	143/4" hole	set at 3	Cement 750' with	/825 sx of	
	Derts 7440	at _7700		30 sx of	975'

Submit to Appropriate District Office

7 7/8

State of New Mexico Fneroy, Minerals and Natural Resources Department

Form C-101 Daniel ... 4 4 40

SURFACE

State Lease — 6 copies Fee Lease — 5 copies				•		Yealing 1-1-as	
DISTRICT I P.O. Box 1980, Hobbs, No.	4 88240	CONSERVATIO P.O. Box 208	8	API NO. (as	igned by OCD	on New Wells)	
DISTRICT II P.O. Drawer DD, Artesia,		anta Fe, New Mexico	8/304-2088	5. Indicate	Type of Lease ST.	ate Fee	X
DISTRICT III 1000 Rio Brazos Rd., Azte	c, NM 87410			6. State Oil	& Gas Lease !	No.	
APPLICA"	TION FOR PERMIT T	O DRILL, DEEPEN, C	OR PLUG BACK				
1a. Type of Work:				7. Lease No	me or Unit Ag	respect Name	
DRIL. b. Type of Well:	L X RE-ENTER	DEEPEN [PLUG BACK	R. R.	SIMS 'A'		
MET X MET CYS	OTHER	STACK.R. 20MB	X 2016 [
2. Name of Operator	ATION AND DOORSON			8. Well No.			
	ATION AND PRODUCTI	ON INC.	<u></u>			5	
3. Address of Operator P. O. Box 3109	, Midland, Texas 7	9702		1	e or Wildcat EAGUE, GL	ORIETA\UP. PA	DDOC
4. Well Location Unit Letter N	: 450 Feet Pr	om The SOUTH	Line and 180	DO Reet	Prom The _V	WEST	Line
Section	Towns	nip 23-SOUTH Ras	37-EAST	NMPM	LEA	Cox	unty
<i>\}}}}}</i>		10. Proposed Depth					
		<i>////</i> // · · · ·	450'	11. Formation GLORIETA/I	Upper	12. Rossry or C.T. ROTAR)	•
13. Elevations (Show whath	CONTRACTOR AND A	4. Kind & Status Plug. Bond	15. Drilling Contra			Date Work will start	<u></u>
GR-3319'		BLANKET	13. Dining Court			EMBER 1, 199	3
17.	PR	OPOSED CASING AN	ID CEMENT PRO	GRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT			CEMENT	EST. TOP	,
20	16	65#	40'	REDI-		SURFACE	
12 1/4	8 5/8	24#	1180'	65	0	SURFACE	

CEMENTING PROGRAM: CONDUCTOR - READYMIX. SURFACE CASING: 450 SACKS CLASS C w/ 4% GEL, 2% Cacl2 (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% Caci2 (14.8ppg, 1.34cf/s, 6.3gw/s). PRODUCTION CASING: 825 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 500 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gw/s).

5450'

1325

15.5#

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

5 1/2

2018. GIVE BLOWOUT PREVI		ORAL IS TO DESPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE 20	ONE AND PROPOSED NEW PRODUCTIVE
• •	Hus/maham/cn4	•	
TYPEORPENTHAME C. P	. Basham		TELEFHONE NO. 915-688-46
(This space for State Use)	Orig. Signed by Paul Kautz Geologist	TIME	DATE
CONDITIONS OF AFFROYAL, S	'ANY:	िक्यार Expires 6 Months From Appro	

Date Inless Orilling Underway

Cross of Name Marian

Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies	Energy,	State of New Mea Minerals and Natural Re			Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NA	1 88240	CONSERVATIO P.O. Box 208	8	API NO. (assigned by O	CD on New Wells)
DISTRICT II P.O. Drawer DD, Artesia, I	_	anta Fe, New Mexico	87504-2088	5. Indicate Type of Lea	STATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azte	c, NM 87410			6. State Oil & Gas Lea	se No.
APPLICAT	ION FOR PERMIT T	O DRILL, DEEPEN, C	R PLUG BACK		
la. Type of Work:		 		7. Lease Name or Unit	Agreement Name
DRILL b. Type of Well: OR GAS WELL X WELL	X RE-ENTER	SINCER	PLUG BACK MULTIPLE ZONE	F. B. DAVIS	
2. Name of Operator TEXACO EXPLOR.	A'TION AND PRODUCTI	ON INC.		8. Well No.	1
3. Address of Operator				9. Pool name or Wilder	
	Midland, Texas 7	9702		TEAGUE NORT	HWEST, DEVONIAN
4. Well Location Unit Latter A	: 660 Feet Pr	om The NORTH	Line and 500	Peet From The	EAST Line
Section 8	Towns	hip 23-SOUTH Ran	37-EAST	NMPM LEA	County
		10. Proposed Depth	700'	Committee	12. Rotary or C.T.
13. Elevations (Show whath		4. Kind & Status Plug, Bond		*DEVONIAN	ROTARY
GR-3323'		4. King & Status Ping, Bond BLANKET	15. Drilling Contractor	1	x. Date Work will start CTOBER 1, 1993
17.		OPOSED CASING AN	ID CEMENT PROGI		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMEN	T EST. TOP
20	16	65#	40'	REDI-MIX	SURFACE
14 3/4	11 3/4	42#	1180'	750	SURFACE
11	8 5/8	32#	3750'	1725	SURFACE
7 7/8	5 1/2	15.5#	7700'	1770	SURFACE
CEMENTING PROGRAM SURFACE CASING: 55 C w/ 2% Caci2 (14.8 NTERMEDIATE CASING SACKS CLASS H w/: PRODUCTION CASING: DV TOOL @ 7000': 20 10.4gw/s). F/B 940	I: CONDUCTOR - REA 0 SACKS CLASS C w 1 ppg, 1.32cf/s, 6.3 G: 900 SACKS 35/6! 2% Cacl2 (15.6ppg, 1st STG: 330 SACK nd STG 500 SACK 0 SACKS 50/50 POZ	/ 4% GEL, 2% Cacl2	(13.5ppg, 1.74cf/s 5% SALT (12.8ppg, FLOCELE, .6% D60 % GEL, 5% SALT, 1 LT, 1/4# FLOCELE	s, 9.1gw/s). F/B : 1.94cf/s, 10.4gw FL (15.6ppg, 1.19 /4# FLOCELE (12.8 (14.2ppg, 1.35cf/	r/s). F/B 825 cf/s, 5.2gw/s). 8ppg, 1.94cf/s, /s, 6.3gw/s).
2016L GIVE MOWOUT PREVE	intes: Program, ip any.	AM: #PROPOSAL 25 TO DESIFER		N PRESENT PRODUCTIVE ZONE	AND PROPOSED NEW PRODUCTIVE
SIGNATUREC	.P. Besham/c	<u></u>	DRILLING OPERAT		09-08-93
TYPEORPRINTNAME C. P	. BASHAM				TELEPHONE NO. 915-688-462

Orig. Signe Paul Kautz Geologist

(This space for State Use) .

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY_

Permit Expires 6 Months From Approval

DATSEP 1 0 1993

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 **Revised 1-1-89**

District Office	
State Lease - 6 co	Joi c
Fee Lease - 5 cop	65

DISTRICT 1 P.O. Box 1980, Hobbe, NW 88240

OΠ.	CONSERVA	TION	DIVISION
	COLIDERATION	122011	

P.O. Box 2088 Santa Fe, New Mexico 87504-2088 API NO. (assigned by OCD on New Wells)

	4M 98710				21.	ATE 📖	PEE [A]
DISTRICT III 1000 Rio Brezos Rd., Aztek	c, NM 87410			6. State Oil	& Gas Lease l	No.	
	TON FOR PERMIT T	O DRILL, DEEPEN, C	R PLUG BACK				
la. Type of Work:				7. Lease Na	me or Unit Ag	preement Name	
b. Type of Well:	RE-ENTER	DEEPEN [PLUG BACK	F. B. I	DAVIS		
OF ABT	OTHER	SINCLE ZONE	X 2006] -			
2. Name of Operator				S. Well No.			
TEXACO EXPLOR	ATION AND PRODUCTA	ON INC.		}		2	
3. Address of Operator				9. Pool sam	e or Wildcet		
P. O. Box 3109,	Midland, Texas 7	9702		SW TE	EAGUE, GL	ORIETA\UP	. PADDOC
4. Well Location Unit Letter A	: 510 Feet Pri	om The NORTH	Line and 500	- Foot	Prom The _E	AST	Line
i							
Section 8	Townst	up 23-SOUTH Res	188 37-EAST	NMPM	LEA		County
Section 8	Towns				LEA		
Section 8	Towas	10. Proposed Depth		. Formation	NPPER	12. Rotary or	(////// C.T.
		10. Proposed Depth	400'	I. Formation GLORIETA/F	APPER PADDOCK	RO	C.T. TARY
13. Elevations (Show whether	## DF, RT, GR, stc.) 14	10. Proposed Depth 5		I. Formation GLORIETA/F	ADDOCK 16. Approx. J	RO' Date Work will	C.T. TARY
13. Elevations (Show whether GR-3323'	## DF, RT, GR, stc.) 14	10. Proposed Depth	400'	I. Formation GLORIETA/F	ADDOCK 16. Approx. J	RO	C.T. TARY
13. Elevations (Show whether	or DF, RT, GR, etc.)	10. Proposed Depth 5	400° 15. Drilling Contract	I. Formation GLORIETA/F	ADDOCK 16. Approx. J	RO' Date Work will	C.T. TARY
13. Elevations (Show whether GR-3323' 17. SIZE OF HOLE	or DF, RT, GR, etc.)	10. Proposed Depth 5 4. Kind & Status Plug. Bond BLANKET	400° 15. Drilling Contract	I. Formation GLORIETA/F	APPER PADDOCK 16. Approx. I OCT	RO' Date Work will	C.T. TARY start 993
13. Elevations (Show whether GR-3323'	or DF, RT, GR, etc.)	10. Proposed Depth 5 4. Kind & Status Plug. Bond BLANKET OPOSED CASING AN	400° 15. Drilling Contract ID CEMENT PRO	I. Formation GLORIETA/F	PADDOCK 16. Approx. 1 OCT	RO' Date Work will OBER 1, 19	CT. TARY start B93
13. Elevations (Show whether GR-3323' 17. SIZE OF HOLE	PROSIZE OF CASING	10. Proposed Depth 5 4. Kind & Status Plug. Bond BLANKET OPOSED CASING AN WEIGHT PER FOOT	15. Delling Contract 15. Delling Contract ID CEMENT PROCESTING DEPTH	I. Formation GLORIETA/F tor GRAM SACKS OF	PADDOCK 16. Approx. I OCT CEMENT -MIX	Por Posts Work will OBER 1, 1:	CT. TARY Start 993 TOP ACE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.		
SURFACE CASING: 45() SACKS CLASS C W/ 4% GEL, 2	2% Cacl2 (13.5ppg, 1.74cf/s, 9.1gw/s). F/	B 200 SACKS CLASS
C w/ 2% Cacl2 (14.8ppg, 1.34cf/s, 6.3gw/s). PRODUCTION CASING: 325 SACKS 35/65 POZ H w/ 6%	K GEL. 5% SALT. 1/4# FLOCELE (12.80pg. 1	.94cf/s. 10.40w/s).
F/B 500 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gr	w/s).	,,
OXY OPERATES A WEILL IN THIS 1/4 1/4 SECTION AN	ID HAS BEEN FURNISHED A COPY OF THIS APPL	LICATION.
·		
		•
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSA	11. 12 TO DESPIN OR PLUG BACK, GIVE DATA ON PERSONT PRODUCTIVE 2:	ONE AND PROPOSED NEW PRODUCTIVE
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSA 2018. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.	ul is to deisten or fluig back, give data on present productive 2	ONE AND PROPOSED NEW PRODUCTIVE
2008. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY. I hereby certify that the information above is true and complete to the best of my k		ONE AND PROPOSED NEW PRODUCTIVE
20ML GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.		ONE AND PROPOSED NEW PRODUCTIVE 09-08-93
I hereby certify that the information above is true and complete to the best of my is	knowledge and balief.	
I hereby certify that the information above is true and complete to the best of my in stonature	knowledge and balief.	
I hereby certify that the information above is true and complete to the best of my in stonature	knowledge and balief.	
I hereby certify that the information above is true and complete to the best of my in stonature	knowledge and balief.	
I hereby certify that the information above is true and complete to the best of my is successful that the information above is true and complete to the best of my is successful that the information above is true and complete to the best of my is successful that the information above is true and complete to the best of my is successful to the best o	DRILLING OPERATIONS MANAGER	DATE

Submit to Appropriate District Office State Lease - 6 copies

12 1/4

7 7/8

State of New Mexico Energy, Minerals and Natural Resources Department

Form	ı C	-10	1
Revi	red	1-1	4

SURFACE

SURFACE

Fee Lease - 5 copies		~^\\		•		
DISTRICT I P.O. Box 1980, Hobbe, NIV	A 88240	P.O. Box 208	В	Tr 1 100 (am		on New Wells)
DISTRICT II P.O. Drawer DD, Artesia, I		anta Fe, New Mexico	8/304-2088	5. Indicate	Type of Lease STA	ATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azte	c, INM 87410			6. State Oil	& Gas Lease I	Va.
APPLICAT	TION FOR PERMIT	O DRILL, DEEPEN, O	R PLUG BACK			
la. Type of Work:				7. Less No	me or Unit Ag	recencet Name
b. Type of Well:	L X RE-ENTER	DEEPEN [PLUG BACK	B. F.	HARRISON '	'B'
MET X MET C	OTHER	SINCLE ZONE	X ZONE [コ		
 Name of Operator TEXACO EXPLOR. 	ATION AND PRODUCT	ION INC.		8. Well No.		14
3. Address of Operator				9. Pool nam	e or Wildcat	
P. O. Box 3109,	Midland, Texas 7	9702		SW TI	EAGUE, GLO	ORIETA\UP. PADDOC
t. Well Location Unit Letter F	: 1800 Feet P	rom The NORTH	Line and 168		Prom The	
Section 9	Towns	hip 23-SOUTH Ren	37-EAST	NMPM	LEA	County
		10. Proposed Depth	450'	11. Formation GLORIETA/I	$u_{r} \sim 1$	12. Rossy or C.T.
13. Elevations (Show whath	er DR PT CP ata)	4. Kind & Status Ping. Bond	15. Drilling Contra			ROTARY Date Work will start
GR-3314'		BLANKET	13. Dining Cours			EMBER 1, 1993
17.		OPOSED CASING AN	D CEMENT PRO	GRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTI	H SACKS OF	CEMENT	EST. TOP
20	16	65#	40'	REDI-	-MIX	SURFACE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.
SURFACE CASING: 450 SIACKS CLASS C w/ 4% GEL, 2% Caci2 (13.5ppg, 1.74ct/s, 9.1gw/s). F/B 200 SIACKS CLASS C w/ 2% Caci2 (14.8ppg, 1.34ct/s, 6.3gw/s).
PRODUCTION CASING: 825 SIACKS 35/65 POZ H w/ 6% GEL, 5% SIALT, 1/4# FLOCELE (12.8ppg, 1.94ct/s, 10.4gw/s).
F/B 500 SIACKS CLASS H (15.8ppg, 1.18ct/s, 5.2gw/s).

24#

15.5#

<u>1180'</u>

5450'

650

1325

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

8 5/8

5 1/2

	is above in true and complete to the best of my	translating and belief. DRILLING OPERATIONS MANAGER TITLE	08-09-93
TYPEORPRINT NAME C. P.	•	Thus -	TELEPHONE NO. 915-688-46
(This space for State Use)	Orig. Signed by Paul Kautz		
AFFROVED BY	Geologist	TITLS	- PATRALIG 1 1 1993 -

Data Unioss Drilling Underway.

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 **Revised 1-1-89**

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies

Of CONSERVATION DIVISION

DISTRICT I P.O. Box 1980, Hobbs, Niv	88240	P.O. Box 208	8	1		on New Wells) 多久スツ ら
DISTRICT II P.O. Drawer DD, Artesia, I		anta Fe, New Mexico	87304-2088	5. Indicate 7	Type of Lease ST.	ATE FEE X
DISTRICT III 1000 Rio Brezos Rd., Azte	c, NM 87410			6. State Oil	& Gas Lease l	No.
APPLICAT	ION FOR PERMIT T	O DRILL, DEEPEN, C	R PLUG BACK			
1a. Type of Work:				7. Lesse Na	me or Unit Ag	reement Name
DRILL	L X RE-ENTER	DEEPEN	PLUG BACK	G. W.	SIMS	
b. Type of Well: OIL GAS WELL X WELL	OTHER	SINGLE ZONE	X ZONE [<u> </u>		
2. Name of Operator TEXACO EXPLOR	ATION AND PRODUCTION	ON INC.		8. Well No.		1
3. Address of Operator P. O. Box 3109	, Midland, Texas 7	9702		9. Pool nam		WEST, DEVONIAN
4. Well Location Unit Letter B	: 510 Feet Pr	om The NORTH	Line and 22:	30 Post	Prom The _E	EAST Line
Section 9	Townsi	hip 23-SOUTH Res	ige 37-EAST	NMPM	LEA	County
<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>		10. Proposed Depth	!	11. Formation		12. Rotary or C.T.
			750'	*DEVO		ROTARY
13. Elevations (Show whath GR-3310'		4. Kind & Status Plug. Bond BLANKET	15. Drilling Contra	ctor		Date Work will start OBER 1, 1993
17.	PR	OPOSED CASING AN	ID CEMENT PRO	OGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT	H SACKS OF	CEMENT	EST. TOP
20	16	65#	40'	REDI-	-MIX	SURFACE
14 3/4	11 3/4	42#	1180'	75	0	SURFACE
11	8 5/8	32#	3750'	17	25	SURFACE
7 7/8	5 1/2	15.5#	7750'	179	90	SURFACE

*SECONDARY FIELDS: TEAGUE NORTH, BLINEBRY, SW TEAGUE GLORIETA/UPPER PADDOCK

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

SURFACE CASING: 550 SACKS CLASS C w/ 4% GEL, 2% Cacl2 (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS

C w/ 2% Caci2 (14.8ppg, 1.32cf/s, 6.3gw/s).

INTERMEDIATE CASING: 900 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 825

SACKS CLASS H w/ 2% Cacl2 (15.6ppg, 1.19cf/s, 5.2gw/s).

PRODUCTION CASING: 1st STG: 350 SACKS CLASS H w/ 1/4# FLOCELE, .6% D60 FL (15.6ppg, 1.19cf/s, 5.2gw/s). DV TOOL @ 7000': 2nd STG. - 500 SACKS 35/65 POZ H w/ 6% GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1.94cf/s, 10.4gw/s). F/B 940 SACKS 50/50 POZ H w/ 2% GEL, 5% SALT, 1/4# FLOCELE (14.2ppg, 1.35cf/s, 6.3gw/s).

THERE ARE NO OTHER OPERATORS IN THIS QUARTER QUARTER SECTION.

IN ABOVE SPACE DESCRIBE PROPO	OSED PROGRAM: # PROPOSAL IS	TO DESPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE 2	XXXIII. AND PROPOSED HEW PRODUCTIVE
20NE. GIVE BLOWOUT PREVENTER PROGRAM			
I hereby certify that the information above is t	rus and complete to the best of my know	rindge and belief.	
SIGNATURE C.P. Bash	am/cw#	DRILLING OPERATIONS MANAGER	DATE
TYPEORPRINT NAME C. P. BASHAM			TELEPHONE NO. 915-688-4620
(This space for State Use)	Orig. Signed by Paul Kautz Geologist		
CONDITIONS OF APPROVAL, IF ANY:		Permit Expires 6 Monti Date Unless Drilling Ui	ns Frott Abbroiss nderway.

State of New Mexico

Form C-101

SURFACE

District Office State Lease — 6 copies Fee Lease — 5 copies	Energy,	Minerals and Natural Re	sources Departmen	t		Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM	I 88240	P.O. Box 208	8	1 107 1 100 / 600	igned by OCD	On New Wells)
DISTRICT II P.O. Drawer DD, Artesia, N		anta Fe, New Mexico	87504-2088	5. Indicate T		ATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azter	c, NM 87410			6. State Oil	k Gas Lease l	No.
APPLICAT	ION FOR PERMIT	O DRILL, DEEPEN, C	R PLUG BACK			
la. Type of Work:				7. Lease Na	ne or Unit Ag	presment Name
b. Type of Well:	RE-ENTER	DEEPEN [PLUG BACK	G. W.	SIMS	
ART X ART	OTHER	SINCE ZONE	X MALTIPLE 20NE			
Name of Operator TEXACO EXPLOR/	A'TION AND PRODUCT	ION INC.		8. Well No.		2
3. Address of Operator P. O. Box 3109,	Midland, Texas	79702		9. Pool name SW TE		ORIETA\UP. PADDO
4. Well Location Unit Letter B	: 510 Feet F	rom The NORTH	Line and 20	80 Feet	Prom The _E	EAST Lie
Section 9	Town	hip 23-SOUTH Ras	180 37-EAST	NMPM	LEA	County
		10. Proposed Depth	500'	11. Formation GLORIETA/P	APPER	12. Rotary or C.T.
13. Elevations (Show whether GR-3309'	•	4. Kind & Status Plug. Bond BLANKET	15. Drilling Contra		16. Approx. I	ROTARY Date Work will start OBER 1, 1993
17.		OPOSED CASING AN	ID CEMENT PRO	OGRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT		CEMENT	EST, TOP
17 1/2	13 3/8	48#	40'	REDI-		SURFACE
12 1/4	9 5 / 9	244	1180'	SE.	~	SINCE

CEMENTING PROGRAM: CONDUCTOR - READYMIX.

7 7/8

SURFACE CASING: 450 SACKS CLASS C w/ 4% GEL, 2% Cacl2 (13.5ppg, 1.74cf/s, 9.1gw/s). F/B 200 SACKS CLASS C w/ 2% Cacl2 (14.8ppg, 1.34cf/s, 6.3gw/s).

5500'

1325

15.5#

5 1/2

PRODUCTION CASING: 825 SACKS 35/65 POZ H w/ 6% F/B 500 SACKS CLASS H (15.6ppg, 1.18cf/s, 5.2gv	GEL, 5% SALT, 1/4# FLOCELE (12.8ppg, 1 v/s).	.94cf/s, 10.4gw/s).
THERE ARE NO OTHER OPERATORS IN THIS 1/4 1/4 SI	ECTION.	
·		
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.	. IS TO DEBIEN OR IFLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE 2	IONE AND PROPORTED NEW PRODUCTIVE
I bereby certify that the information above in true and complete to the best of my in	nowindge and balinf.	
SIGNATURE C.R. Basham / CWH	TITLE DRILLING OPERATIONS MANAGER	
TYPEORPRINTNAME C. P. BASHAM		TELEPHONE NO. 915-688-462
(This space for State Use) Orig. Signed by Paul Kautz		
APPROVED BY Geninglet	mz	_ DATE
CONDITIONS OF AFFROVAL, IF ANY:	Permit Expires 6 Months F Date Unless Drilling Hode	SEP 10 1993 rom Approvar



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

CHEMICAL ANALYSIS OF WATER

Peak Consulting Services Company : Date: 8/9/93 Lab #: H1317

City, St.:

Proj. Name: Water Well & Windmill Eunice - Harrison Area Location : Windmill S16 T23 R37E Sample 1: Water Well S8 T23 R37E Sample 2:

Sample 3:

Sample 4:

PARAMETER RESULT (mg/L) SAMPLE

	1	2	3	4	
рН	7.25	9.12			
Hardness (CaCO ₃)	456	212			
Calcium (CaCO ₃)	340	92			
Magnesium (as CaCO ₃)	116	120			
Sulfate (SO ₄ -)	180.5	166.0			
Chloride (Cl-)	180	88			
TDS	988	620			
PhenoAlkinity (p-Alk)	0	48			
Total Alkalinity	220	172			

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Receipt for

Receipt for Certified Mail

No Insurance Coverage Provided Do not use for international Mail (See Reverse)

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	P.D. State and I'M Code Center Pout To	× 78010
	Postage /	\$ 1.99
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	Restricted Delivery Fee	
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Receipt for Certified Mail

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Restricted Delivery Fee 7	2
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Return Receipt Showing to Whom, Date, and Addressee's Address	114
TOTAL Postage & Fees	\$2
Postmark or Date	

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UN TED STATES

Receipt for Certified Mail

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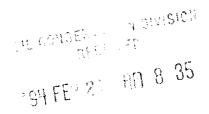
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Receipt for Certified Mail

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P.O. BOX 636 HOBBS, NEW MEXICO 88240 OFFICE (505) 392-1915

PEAK

CONSULTING SERVICES

ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS



February 16, 1994

Mr. David Catanach Oil Conservation Division P.O. Box 2088 Santa Fe. New Mexico 87504-2088

> Re: Proof of Publication Harrison B. F. 'B' 16 SWD

Dear David:

Please find enclosed the proof of publication for the above captioned project. I have not received any notice of objection to this application as of this date.

If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and consideration.

Sincerely,

Michael L. Pierce

Peak Consulting Services

SHULL SE THE 8 39

P.O. BOX 636 HOBBS, NEW MEXICO 88240 OFFICE (505) 392-1915

PEAK

CONSULTING SERVICES

ENVIRONMENTAL, GEOLOGICAL & REGULATORY SPECIALISTS



March 21, 1994

Mr. Ben Stone Dil Conservation Division P.O. Box 2088 Santa Fe. New Mexico 87504-2088

> Re: Proof of Publication Harrison B. F. 'B' 16 SWD

Dear Ben:

Please find enclosed the proof of publication for the above captioned project.

If you have any questions or if I can be of any assistance, please let me know. Thank you for your time and consideration.

Sincerely

Michael L. Pierce

Peak Consulting Services

State of New Mexico. County of Lea.

 I, Kathi Bearden
General Manager

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of
one weeks.
Beginning with the issue dated
<u>February 11</u> , 19 94
and ending with the issue dated
<u>February 11</u> ,19 94
Lati Carden
General Manager
Sworn and subscribed to before
me this day of
Lebruary 10 94
Charlene Kerrin
Notary Public.
My Commission expires

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

March 15, 1997

(Seal)

1 JUNEAU JA DIVISION AE TE D

'94 MA 23 AM 8 39

LEGAL NOTICE

February 11, 1994
TEXACO EXPLORATION
AND PRODUCTION, INC.,
whose address is 205 E.
Bender Blvd., HOBBS, NEW
MEXICO 88240, proposes to
drill the following well for the purpose of disposing pro-duced water from oil and

gas production.

The well is the Harrison
B.F. 'B' No. 16 SWD located
at 996' FNL and 531' FWL of Sec. 9- T23S - R37E, unit D, Lea County New Mexico. The injection interval is the San Andres at a depth of approximately 4200' - 5000'. The maximum injection rate will be 5000 bbls/day, with 0 pressure.
Interested parties should

file objections or requests for hearing with the Oil Con-servation Division, P.O. Box 2088, Santa Fe, New Mexico 87504-2088, within 15

Inquiries regarding this ap-

plication should be directed to Peak Consulting Services Attn. M. L. Pierce, P.O. Box 636, Hobbs, New Mexico 88240, (505) 392-1915.



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OF THE DESCRIPTION

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

'94 FEH 24 AM 8 39

BRUCE KING GOVERNOR 2-23-94

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 RE: Proposed: MC DHC NSL NSP SWD WFX PMX	
Gentlemen:	
I have examined the application for the: Nexaco Explored Inc. B.F. Harrison B. #16-D. 923-3 Operator Lease & Well No. Unit S-T-R and my recommendations are as follows:	37
Yours very truly,	
Jerry Sexton Supervisor, District 1	
/ed	