TEXACO EXPLORATION & PRODUCTION IN	OIL CON Santa I RMIT TO DRILL	Prois and Nat NSERVA P.O. Bo: Fe, New M	exico 87504-208	ISION 38	Instr Submit to Appropria State L Fee L AMENDI R ADD A ZONE ² OGRI	Form C-101 ebruary 10,199 uctions on bac te District Offic ease - 6 Copie ease - 5 Copie ED REPORT D Number
15 SMITH ROAD, MIDLAND, TX 79705	⁵ Property	operty Name			API Number 30 025 10039 ⁶ Well No.	
011114		STICHER	R, E. A.			2
	⁷ §	Surface Loo	cation			
Ul or lot no. Section Township Range L 4 22S 37E	Lot.ldn Fee	t From The 1980	North/South Line SOUTH	Feet From The 660	East/West Line WEST	County LEA
⁸ Prop	osed Bottom Hol	le Location	If Different From	n Surface		
UI or lot no. Section Township Range		t From The	North/South Line	Feet From The	East/West Line	County
⁹ Proposed Pool 1 PENROSE SKELLY GRAYE	URG		· · · · ·	¹⁰ Proposed Po	ol 2	
11 Work Type Code 12 WellType P O 16 Multiple 17 No 6580'	R Depth ¹⁸	totary or C.T. COTARY Formation	¹⁴ Leas ¹⁹ Cor	e Type Code & P htractor	¹⁵ Ground Level 3429' Gl ²⁰ Spud I 6/15/2002	Date
L	24				6/15/2002	
SIZE OF HOLE SIZE OF CASING	WEIGHT PER F		Cement Program	SACKS OF		EST. TOP
NO CHANGE						
22 Describe the proposed program. If this application is to DEE Describe the blowout prevention program, if any. Use additi TEXACO E&P INTENDS TO PLUGBACK THE TUE INTENDED PROCEEDURE. OURSENTING	SUBJECT WELL TO	THE GRAYE	BURG FORMATION,	ACIDIZE & FRA	.C.	
THE INTENDED PROCEDURE, CURRENT WE APPROVAL.	Permit Ex	pires 1 Y Inless Dr	osed well bore oar From App illing Underwa K-BacK			JR
²³ I hereby certify that the rules and regulations of the Oil Con- Division have been complied with and that the information g is true and complete to the best of my knowledge and belief			<u> </u>	ONSERVAT	ION DIVISIO	N
Signature A. Aussich Printed Name J. Denise Leake	Gake	Titl		r Gan F	GINAL SIGNED PAUL F. KAUTZ OLEUM ENGIN	B Y
Title Regulatory Specialist Date 5/28/2002 Telept		Co	proval Date: nditions of Approval:		xpiration Date:	
Date 5/28/2002 Teleph	one 915-687-7	375 Attac				

2
L
A

E. A. Sticher # 2 Penrose Skelly Field T22S, R37E, Section 4 Job: <u>PB To Grayburg Formation, Acidize, And Frac</u>

Procedure:

- 1. MI & RU pulling unit. Bleed pressure from well, if any. Pump down csg with 2% KCl water, if necessary to kill well. Remove WH. Install BOP's and test to 1000 psi.
- 2. PU and GIH with 4 ¹/₄" MT bit and 2 7/8" work string to PBTD at 5865'. POH with work string and 4 ¹/₄" bit. LD bit.
- 3. PU and GIH with 5" tbg-set CIBP to 5200'. Set CIBP at 5200'. Reverse circulate well clean from 5200' using 2 % KCl water. POH with 2 7/8" work string.
- 4. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct GR/CBL/CCL log from 5200' up to 3000'. POH. Inspect logs for good cement bond from approximately 4300' up to 3500'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. Cmt squeeze as necessary to obtain good cmt across completion interval. GIH with 3 1/8" DP slick casing gun and perforate from 3752-3885' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit.
- 5. PU and GIH w/ 5" PPI pkr (with 20' element spacing) and SCV on 2 7/8" work string to approximately 3750'. Test tbg to 5500 psi while GIH.
- 5. MI & RU DS Services. Acidize perfs 3752-3885' with 3,400 gals anti-sludge 15% HCl acid * at a maximum rate of 1BPM and a maximum surface pressure of 4000 psi. Spot acid to bottom of tbg at beginning of each stage. Displace acid with 2% KCl water -- do not overdisplace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS Services. Note: Pickle tubing in 2 runs of 250 gals acid each, prior to acidizing perfs. Pickle acid is to contain only 1/2 gal CI-25 and 1 gal NE-13. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 1000 psi csg pressure. If cannot, then save remaining acid for high rate combined acid treatment of all zones after completion of the PPI job.

* Acid system is to contain:	1 GPT CI-25	Corrosion Inhibitor
-	2 GPT FE-270L	Iron Control
	1 GPT FE-271L	Iron Control Catalyst
	1 GPT FAW-18	Binding Agent
	1 GPT NE-13	Non-Emulsifier

- Release PPI pkr and PUH to approximately 3700'. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered fluid volumes, pressures, and/or swabbing fluid levels. <u>Note</u>: Selectively swab perfs as directed by Engineering if excessive water is produced.
- 8. Open well. Release PPI pkr. POH with tbg and PPI packer. LD 2 7/8" work string and PPI tool.
- PU and GIH w/ 5" Lok-Set pkr & On-Off tool w/ 1.78" "F" profile and 118 jts. of 3 ¹/₂" EUE 8R L-80 work string, testing to 7000 psi. Set pkr at approximately 3700'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.
- MI & RU DS Services. Frac well down 3 ¹/₂" tubing at 40 BPM with 56,500 gals of SpectraFrac G3500, 6,000 lbs. 100 mesh White Sand, 133,500 lbs. 16/30 mesh White Sand, and 24,500 lbs resin-coated 16/30 mesh proppant. Observe a maximum surface treating pressure of 6500 psi. Pump job as follows:

Pump 6,000 gals SpectraFrac G3500 pad
Pump 6,000 gals SpectraFrac G3500 pad containing 1 PPG 100 mesh sand
Pump 6,000 gals SpectraFrac G3500 pad
Pump 3,500 gals SpectraFrac G3500 containing 1 PPG 16/30 mesh Ottawa Sand
Pump 5,500 gals SpectraFrac G3500 containing 2 PPG 16/30 mesh Ottawa Sand
Pump 6,000 gals SpectraFrac G3500 containing 3 PPG 16/30 mesh Ottawa Sand
Pump 6,000 gals SpectraFrac G3500 containing 4 PPG 16/30 mesh Ottawa Sand
Pump 7,000 gals SpectraFrac G3500 containing 5 PPG 16/30 mesh Ottawa Sand
Pump 7,000 gals SpectraFrac G3500 containing 7 PPG 16/30 mesh Ottawa Sand

Flush to 3700' with 1,350 gals AquaFrac 3500. <u>Do not overflush.</u> Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release BJ Services. Leave well SI overnight.

- 11. Open well and swab/backflow until well cleans up with no frac sand in returns and a stabilized flow rate is obtained. Report recovered fluid volumes, choke sizes and flowing pressures. SWI.
- 12. If well flows, GIH and set tbg plug in "F" profile. Release on-off tool and POH with 3 ¹/₂" work string and top half of on-off tool. Lay down work string. PU and GIH w/ top half of on-off tool on 2 3/8" tbg, testing to 5000 psi. Displace annulus with inhibited packer fluid. Re-engage on-off tool. Remove BOP's and install flanged WH rated at 3000 psi WP. Pressure test tbg and WH to 3000 psi. Pressure test casing to 500 psi. GIH and swab fluid level in tubing down until differential across tbg plug is balanced. GIH and retrieve tbg plug from "F" nipple. Swab well if necessary to initiate flow. RD & release pulling unit.

- 13. If well does not flow, release pkr and POH with 3 ¹/₂" work string. Lay down work string and pkr.
- 14. PU and GIH w/ BP mud anchor jt of 2 3/8" tbg, 2 3/8" x 4' perforated sub, SN, and 126 jts 2 3/8" EUE 8R J-55 tbg, testing to 5000 psi. Suspend tbg with EOT at 3935' and SN at 3900'.
- 15. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.
- 16. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH 5/23/2002

.

an the second second





DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
P.O. Box 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 and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102 Revised February 10,199 Instructions on bac Submit to Appropriate District Offic State Lease - 4 Copie Fee Lease - 3 Copie □ AMENDED REPORT

				² Pool Coc	· · · · · · · · · · · · · · · · · · ·	EAGE DEDICATIO	³ Pool Na	me	
¹ API Number 30-025-10039			2001 Cod 5035			SKELLY PENROS			
			⁵ Proper	ty Name		6 We	ll No.		
	011114					ER, E.A.			2
	GRID Numb 022351	ber		TEXA		tor Name	NC.	⁹ Elevation 3429' GL	
	<u>.</u>				¹⁰ Surface L	ocation			
or lot no	Section	Township	Range	Lot.ldn	Feet From The		Feet From The	East/West Line	County
L	4	22S	37E		1980	SOUTH	660	WEST	LEA
	: <u></u>		11 E	Bottom Ho	le Location If	Different From Su	rface		
or lot no.	Section	Township	Range	Lot.ldn	Feet From The	North/South Line	Feet From The	East/West Line	County
Dedicate	d Acre 10	Joint or Infill	14	Consolidati	on Code	Order No.			
40		No							
NC	ALLOWA	ABLE WILL B	BE ASSIG	NED TO TH	IS COMPLETI	ON UNTIL ALL INT		BEEN CONSOLID	ATED
		0	R A NON-	STANDAR	D UNIT HAS B	EEN APPROVED B			ATION
				<u> </u>				ERATOR CERTIFIC	
16				1			ertify that the information rein is true and comple		
			1			nowledge and belief			
		I			I				
		1							
		I I			Ì		Signature	1.4	,
		I I			 			Jense T	rake
							Printed Nam	e	
		1			i		J. Denise	e Leake	
		1					Positio		
		ł					Regulato	ory Specialist	
		1				1	Date	г,	
		i I				i	5/28/2002		
******	*******	••• <u>•</u> •				1		RVEYOR CERTIFIC	
110'	1.0	İ				Î	I hereby cert	ify that the well location	shown
66D' #2					1		as plotted from field no		
					I		ys made byrme or unde and that the same is t⊓		
					1		best of my knowledge		
		1				1	belief.		
нини	нннн	ы 4				'	Date Survey	ed	
		! 1				1	Signature &	Seal of	
						1	Professional		
, c		I							
, 00 l	2	1				1			
10,80		I I I				• 1 1			
10,001	Da 1-1	1 1 1 1 1 1				• 1 1 1			

DeSoto/Nichols 3/94 ver 1.10