P. O. Box Hobbs, N District SII S. Fi Artesia, N District	M 88241 II - (505) rst M 88210 III - (505) Brazos Ro M 87410	-1980 748-1283 334-6178	Egy	y Minerals and Oil Cor 2040 Santa F	New Mexico I Natural Reso Inservation Div South Pacheco Stu South Pacheco Stu South Pacheco Stu South Pacheco Stu South Pacheco Stu South Pacheco Stu Subsection Studies Subsection Stud	rision reet 7505	ertment	Form C-14(Originated 11/1/9 Submit Origina Plus 2 Copie to appropriat District Offic
			<u>(</u>	AP QUALIFICATION C	PLICATION FOR		_	
_				AND CERTI	FICATION OF APP	PROVAL		
THR OFF	IEE COP ICE OF 1	IES OFTHIS THE OIL CO	S APPLICA NSERVATI	TION AND ALL AT ION DIVISION.	FACHMENTS MUS	T BE FILED W	ITHTHE APPF	ROPRIATE DISTRICT
١.	Opera	ator: <u>Sa</u>	inta Fe	Energy Resour	ces, Inc.		OGRID #-	020305
				xas, Suite 13				
				Iravis			(915)687-	2551
lt.	Name Locat	e of Well: ion of Well: L	Young Unit Letter	North AN Fede <u>M, 560</u> Fe <u>185</u> , Range	eral #2	API #:	30-025-3	80945
111.	Datev	Norkover Pro	ocedures C	Commenced:	10/21/07			County
IV.				Vorkover Procedur		ocrease the pr		
V.	Attach table s	an estimate	e of the pro thiv oil and/	duction rate of the	Well (a productio	n decline curvi	e or other acci	eptable method, and
VI.				Projection is based				over.
		ng (Queen						
VII.	AFFID	AVIT:						
	State o	f <u> </u>	as)				
	County	of <u>Mid</u>	land) ss.				
				uly sworn, upon oa	th states.			
	1.			authorized represe		mor of the sh		
	2.	I have mad	ie, or caus		diligent soareb a	f the mention the		i Well. hich are reasonably
	3.	To the best	of my know		sed to prepare the pared using sound		rojection for th igineering prin	nis Well is complete ciples.

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(Name) (<u>Senior Reservoir/Evaluations Engineer</u> (Title)

MP

SUBSCRIBED AND SWORN TO before me this 17th day of Mar. 1998 CARLEEN Y. CAMPBELL ٥ Notary Public STATE OF TEXAS Notary Public My Comm. Exp. 07/22/99 M commission expires.

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

> This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995. Chapter 15. Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of <u>11-2-</u>, 1927

District Supervisor, District Geologist

Oil Conservation Division

Date:

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.

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DATE:

YOUNG NORTH "AN" FED 2 PROJECTION OF PRODUCTION DECLINE PRIOR TO WORKOVER

MONTH	YEAR	BOPM	MCFPM
October	1997	5	0
November	1997	5	0
December	1997	5	0
January	1998	5	0
February	1998	4	0
March	1998	4	0
April	1998	3	0
May	1998	3	0
June	1998	3	0
July	1998	2	0
August	1998	2	0
September	1998	2	0
October	1998	2	0
November	1998	2	0
December	1998	1	0
January	1999	1	0
February	1999	1	0
March	1 9 99	1	0
April	1999	1	0
May	1999	1	0
June	1999	1	0
July	1999	1	0
August	1999	1	0
September	1999	1	0
October	1999	0	0

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WORKOVER PROCEDURE

YOUNG NORTH "AN" FEDERAL #2 QUEEN COMPLETION

The Young North "AN" Federal #2 was completed in the Bone Spring. In September, 1997 the Bone Spring was abandoned and the Queen was completed. The following is an outline of the completion procedure.

1. Rigged-up workover unit. Pulled out of hole with rods and tubing.

2. Set CIBP at 8000' and cap with 35' of cement. Perforated the Queen as follows:

3713-18', 3723-27', 3732-38' and 3745-50'

3. Fracture stimulated Queen with 14,000 gal. and 44,300# of 16/30# sand at 12 BPM. Average pressure was 2500# and ISIP was 2100#.

4. Swabbed and flowed back load.

5. Set a 228 pumping unit and placed well on pump.



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YEAR

-	• 	- OPERATOR'S CONTRACTOR										
Form 3160-5 (June 1990)	UNITED STATES DEPARTMENT OF THE INTER BUREAU OF LAND MANAGEN SUNDRY NOTICES AND DEPODED OF	MENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.									
Du nut use this form	SUNDRY NOTICES AND REPORTS ON a for proposals to drill or to deepen or re e "APPLICATION FOR PERMIT - " for su	Pentry to a different reperval	NM-40449 6. If Indian. Allottee or Fribe Name									
	SUBMIT IN TRIPLICATE		7. If Unit or CA, Agreement Designati									
I. Evpe of Well Quil Gas Well Well	Other		8. Well Name and No.									
2. Name of Operator Santa Fe Energy 3. Address and Telephone No	Resources, Inc.	· · · · · · · · · · · · · · · · · · ·	Young North AN Federal #2									
550 W. Texas Sui	te 1330, Midland, TX 79701	915/687-3551	9. API Well No. 30-025-30945									
Elecation of wen (Pootage,	90' FWL. Sec. 8. T-18S, R-32E		 Field and Pool, or exploratory Area Undesignated (Queen) County or Parish. State 									
CHECK AP	PROPRIATE BOX(S) TO INDICATE N	IATURE OF NOTICE, REPORT										
TYPE OF SUB	MISSION	TYPE OF ACTION										
X Subsequent		Abandonment Recompletion Jugging Back asing Repair Illering Casing ther	Change of Plans Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water									
	Operations (Clearly state all pertinent details, and give per s and measured and true vertical depths for all markers and POCH w/ pump and rods. SD for week		(Note: Report results of multiple completion on V Completion or Recompletion Report and Log for any proposed work. If well is directionally o									
	ead. NJ BCP. POOH w/ tubing.	.ena.										
10/22/97: RU wirel to 3000#. ok. Corr	ine and set CIBP @ 8000'. Dump ba elate & perforate 2 SPF 3713-18'; ine. PU Uni V pkr, SN, test tbg in	il 35' of cmt on top of CIBP 3723-27': 3732-38': & 3745-5 n hole to 3766'. Pull up to	. Load hole & test plug 0'. All shots fired, no 3611'.									
10/24/97: RU BJ an	i frac well w/ 14.000 gal gel & 44.	,300# 16/30 sand. RU to beg	in swabbing operations.									
10/25/97: TP 10#. obls load water.	Tag fluid @ 2000'. Swab fluid to	3300'. Avg fluid entry = 5	bbls/hr. Recovered 69									
0/26-30/97: Contir	ued swabbing.											
.0/31/97: RIH w/ tu		llhead. RIH w/ gas anchor, p	pump, & rods. Set 228									
I hereby certify that the foregoin	The blough Title Sr. Proc	luction Clerk	Dur. 11/18/97									
This space for Federal or State of Approved by	The blough Title Sr. Proc	Juction Clerk	. Date <u>11/18/97</u>									

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' Form 3160-4 (July 1992)	-		иј тс	4[TES	s TERIO		r in dup	- A		1	ОМВ	M APPROVED NO. 1004-0137 : February 28, 1995
								K		struct	other in- ions on			TION AND SERIAL NO.
BUREAU OF LAND MANAGEMENT TOVERSE SILLEY WELL COMPLETION OR RECOMPLETION REPORT AND LOG*											NM-40440			
Iu. TYPE OF W						LETIC	ON REF	POR	IT AN	ID L	OG*	6. IF INDIA	N, ALLO	TTEE OR TRIBE NAME
b. TYPE OF C		v		GAS WEL	т 🗖	DRY [Other					7. UNIT AG	REEME	NT NAME
NEW _		WORK . D	EEP.	PLUC		DIFF. 10	_							
2. NAME OF OPER	ATOR	OVER L		BAC	<u>گ</u> لا	RESVR.	Other					8. FARM OF	LEASE	NAME, WELL NO.
<u>Santa Fe En</u>	erav	Resources	Inc								1			ch "AN"
3. ADDRESS AN	D TEI	LEPHONE NO.		•								Feder	<u>a] #2</u>	2
550 W. Texa	<u>is, S</u>	<u>Suite 1330.</u>	Mid1	and, T	X 797	01 🐭	**************************************		(915)	د ד ס	551	30-02		
4. LOCATION OF W At surface	VELL	(Report location	learly an	d'in accor	dance with	any State	requirements)	**************************************		007-3	<u></u>	10. FIELD A	ND POOL	L, OR WILDCAT
(M), 560° F! At top prod. inte	SL a srval re	nd 990' FW	L. Sec	:. 8, 1	-185.	R-32E	l'Arran Arran				•	Undes	ignat	ed (Queen)
••••••							1 1.0	10			Γ	11. SEC., T., AND SUR	R., M., (OR BLK.
At total depth					Tia D	ERMIT NO.						Sec. 8	<u>3.</u> T-	18S. R-32E
					10. 6	CRMITINU.		. DA . 1	TE ISSUED	ac'		2. COUNTY (PARISH	OR	13. STATE
15. DATE SPUDDED	<u> </u>	6. DATE T.D. REA	CUED	1 10		i						ea		NM
10/18/97		11/02/97	CHU			Ready to p	rod.)				(B, RT, GR,		19.	ELEV. CASINGHEAD
20. TOTAL DEPTH, M			BACKT	<u>, 11/</u> .D., MD &	02/97				760'G	iR		-		
10.800'		796		.U., MD &		ZZ. IF MULI HOW MA	TIPLE COMPL.,			INTERV		ROTARY	001.5	CABLE TOOLS
24. PRODUCING INTE	RVAL			TOP BOTT		(147) A 117) 7	N/A				>	A11		N/A
					OM, HAME		VD)*						2	SURVEY MADE
3713' - 3750	· (Q	ueen)												No
26. TYPE ELECTRIC A										<u> </u>				
Previously s	ubmi	tted											27. W	AS WELL CORED
28.				CAS	ING P.E.C	OPD (Rep	ort all strings	set in	well)				<u> </u>	No
CASING SIZE/GRADE		WEIGHT, LB./F		DEPTH SE	r (MD)		OLE SIZE			OF CEM	ENT, CEMI	ENTING RECO	ORD	AMOUNT PULLED
<u>3-3/8"</u>		<u>48.0#</u>		90'		17-1/	2"		450 s	x C1	"C"			5 0e
- <u>5/8"</u>		24.0#		<u>471'</u>		12-1/4	<u>4"</u>		800 s;	<u>x Lit</u>	e & 20	0 sx "C		None
1/2"		<u>15.5 & 17.0</u>	<u>)# 1(</u>	<u>),800'</u>		7-7/8	•		1600	<u>sx</u> "H	"			None
) .		<u></u> т.	INER RI	COPD	··	<u> </u>								
SIZE	Т	OP (MD)	BOTTOM		SACKS	EMENT*	1		30.		· · · · · · · · · · · · · · · · · · ·	BING REC		
N/A						EMEN1*	SCREEN	(MD)	<u> </u>	IZE	DE	PTH SET (MD))	PACKER SET (MD)
							, <u> </u>							·····
PERFORATION RECO	DRD (In	terral, size and n	umber)											
10.330'-10,4	442.	(plugged)					J2. DEPTH IN	AL	L (MD)	T. FRA	CTURE, C	EMENT SC	UEEZE	E. ETC. FERIAL USED
8160'-8450'	(plu	ugged)					10,330			C				5' cmt on top.
3713'-3750'	(50	holes) 2 S	SPF w/	3-1/8"	Dorf	<i>a</i> un			· · · · · · · · · · · · · · · · · · ·					<u>cmt on top.</u>
	•			0 1/0	peri	gun	8160'-8	3450	,					<u>cmt on top.</u>
•							3713' - 3			Fr	ac'd w	/14 000		<u>del & 44.300#</u>
TE FIRST PRODUCTION		PRODUCTI			PI	RODUCTIO	ON N			5	ind.	<u>/ 14.000</u>	<u>_qa i</u>	<u>4e1_a_44.300#</u>
1/02/97	•	Pumpin	α 1 1	OD (Flown	ig, gas lift, 201	pumping -	size and type	of pum	ф) 			WELL ST	ATUS (P	roducing or
TE OF TEST	HOU	RS TESTED	CHOKE									shut-i	" Pro	oducing
1/09/97	24		N/A	SILE	PROD'N. TEST PE		OIL - BBL.		GAS - M	CF.	WAT	ER - 881.	G	AS - OIL RATIO
W. TUBING PRESS.	<u> </u>	G PRESSURE	CALCU	LATED	011		67		59		0		88	30
(A 0		24-HOUR RAT		RRATE	01L-88L. 67		GAS - MCF.		WATER - BBL		R - BBL.			TTY - API (CORR.)
DISPOSITION OF GAS (Sold, u	ised for fuel, vent	ed, etc.)		<u> </u>		59			0				eg @ 64 deg
bīd			-								TEST	WITNESSED I	3Y	
LIST OF ATTACHMENT	S			·····					·					
60-5			·											
I hereby certify that the fore	egoing a	nd attached informatio	m is compl	ete und corre	et as determ	ined from all	available records						·	<u> </u>
SIGNED	ès,	Mel	ul	10	1		Productio		lerk				11/17	107
	<u>V</u>	e Instructions		- /	7 –							DATE -	11/1/	/9/

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fict-rious or fraudulent statements or representations as to any matter within its jurisdicton.