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	WELL OTHER		SINGLE X	MULTIPLI 20NE	8. FARM OR LEASE NAME, WELL NO.
	gy Resources, Inc.				Maljamar "15" Fed #1
3. ADDRESS AND TELEPHONE NO. 550 W. Texas.	Suite 1330; Midland,	Texas 70701(0	15)682-6373		30-025-34549
4. LOCATION OF WELL (I	Report location clearly and	i in accordance with at	State requirem	ents.•)	10. FIELD AND POOL, OR WILDCAT Maljar (Devonian)
At surface (A) 1310' FNL	& 1310' FEL	LIKE APPR	OVAL		11. SEC., T., R., M., OR BLK.
At proposed prod. zo:	ne	BY STATE			AND SURVEY OR AREA
4. DISTANCE IN MILES	AND DIRECTION FROM NEA	PEST TOWN OF DOTT OF	PIGR		Sec. 15, T-17-S, R-32-E
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10. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to Dearest dr]	T LINE. FT.	1310'	NO. OF ACRES IN	LEASE	17. NO. OF ACREM ABSIGNED TO THIS WELL 160
18. DISTANCE FROM PROI TO NEAREST WELL, I	COSED LOCATION* DRILLING, COMPLETED.		PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS
OR APPLIED FOR, ON TH	tis LEASE, FT. ether DF, RT, GR, etc.)	NA	14400'		Rotary
4074'	emer Dr, AI, GA, ecc.)				22. APPROX. DATE WORK WILL START*
3.					October 19, 1998
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Drilling Program	n	as Order No. 1 are	outlined in the		attachi EFF. DATE 12-15-98 APINO. 30-025-
Exhibit B - BC	perations Plan P and Choke Schem illing Fluid Program	natic		Exhibit F	F - Plat Showing Existing vyens F (A) - Plat of Location
Exhibit D - Au	ixiliary Equipment po Map at Location	N'S/	<u>- 415C</u>		3 - Well Site Layout Use and Operations Plan
Santa Fe Energ restrictions con described abov	gy Resources, Inc. ac cerning operations co e.	-	e terms, condit ased land or p	Al tions, stipy ortion then S	PPROVAL SUBJECT TO ENERAL REQUI REMENTS AND PECIAL STIPU LATIONS
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	al or State office use)				
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					e which would entitle the applicant to conduct operations thereon.
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DISTRICT I P. O. Box 1980 Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals, and Natural Resources Department Form C--102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease - 4 copies-Fee Lease - 3 copies

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Artesia, NM 88211-0719 <u>DISTRICT III</u> 1000 Rio Brazos Rd.

Aztec, NM 87410

DISTRICT IV P. O. Box 2088

DISTRICT_II P. O. Drawer DD

> OIL CONSERVATION DIVISION P. 0. Box 2088 Santa Fe, New Mexico 87504-2088

AMENDED REPORT

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DRILLING PROGRAM

SANTA FE ENERGY RESOURCES, INC.

Maljamar "15" Fed. No. 1

In conjunction with Form 3160-3, Application to Drill the subject well, Santa Fe Energy Resources, Inc. submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 1.

- 1. Geologic Name of Surface Formation: Alluvium
- 2. Estimated Tops of Significant Geologic Markers:

Rustler	1000 '
Queen	3270'
San Andres	4020'
Abo	7610'
Wolfcamp	9075
Strawn	11550'
Atoka	11850'
Morrow	12250'
Morrow Clastics	12500'
Miss. Chester	12850'
Woodford	13900'
Devonian	14000'
Total Depth	14400'

3. The estimated depths at which water, oil or gas formations are expected:

Water	None expected in area
Gas - Oil	Wolfcamp @ 10000 - 10100'
	Cisco @ 10500 - 10600'
	Devonian @ 14000 - 14200'

- 4. Proposed Casing Program: See Form 3160-3 and Exhibit A
- 5. Pressure Control Equipment: See Exhibit B
- 6. Drilling Fluid Program: See Exhibit C
- 7. Auxiliary Equipment: A mud logging unit will be utilized to monitor penetration rate and hydrocarbon shows while drilling below 4600' to TD.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: (all DST's to be justified on the basis of valid show of oil or gas):

Wolfcamp @ 10000 - 10100' Cisco @ 10500 - 10600' Devonian @ 14000 - 14200

Logging:

Dual Laterolog W/MSFL and Gamma Ray	4600' - 14400'
Compensated Neutron/Litho-Density/Gamma Ray	4600' - 14400'
Compensated Neutron/Gamma Ray (thru csg)	Surface-4600'

Coring: No conventional cores are planned

Maljamar "15" Fed. No. 1 Page 2

9. Abnormal Conditions, Pressures, Temperatures & Potential Hazards:

No abnormal pressures are anticipated. The estimated bottom hole temperature is 185° and the estimated bottom hole pressure is 6110 psi. No Hydrogen Sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major lost circulation zones have been reported in the offsetting wells.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the B.L.M. The anticipated spud date is <u>October 19, 1998</u>. Once spudded, the drilling operation should be completed in approximately 50 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.

EXHIBIT A OPERATIONS PLAN SANTA FE ENERGY RESOURCES, INC. Maljamar "15" Fed. No. 1 Section 15, T-17-S, R-32-E Lea County, New Mexico

- 1. Drill a 17-1/2" hole to approximately 650'.
- 2. Run 13-3/8" 48.0 ppf H-40 ST&C casing. Cement with 325 sx 35/65 POZ "C" with 6% gel and 1/4 pps Flocele, followed with 200 sx "C" cement containing 2% CaCl₂. Run centralizers on every other joint above the shoe. Apply thread lock to bottom two joints and guide shoe.
- 3. Wait on cement twelve hours prior to cutting off.
- 4. Nipple up an annular BOP system and test casing to 600 psi. WOC twentyfour (24) hours prior to drilling out.
- 5. Drill a 12 1/4" hole to approximately 4600'.
- 6. Run 4600' 9-5/8' 40.0 ppf K-55 ST&C casing. Cement with 700 sx Interfill "H" with 1/4 pps flocele followed by 200 sx Class "C" with 2% CaCl₂ Run guide shoe on bottom and float collar two joints from bottom. Centralize every other joint for bottom 400' of casing. Thread lock bottom 2 joints.
- 7. Wait on cement for twelve hours prior to cutting off.
- Nipple up and install a Double Ram and Annular BOP system with choke manifold.
- 9. Test BOP system to 2000 psi with the rig pump. Test casing to 2000 psi.
- 10. Drill 8-3/4" hole to 14400'. Run logs.
- 11. Either run and cement 14400' of 7" 26 ppf L-80 and 29 ppf L-80 LT&C casing or plug and abandon as per BLM requirements. Casing will be 4600' of 7" 29 ppf L-80 LT&C on bottom followed by 7500' 7" 26 ppf L-80 LT&C, and 2300' of 7" 29 ppf LT&C on top.



EXHIBIT C DRILLING FLUID PROGRAM SANTA FE ENERGY RESOURCES, INC. Maljamar "15" Fed. No. 1 Section 15, T-17-S, R-32-E Lea County, New Mexico

0 - 650'

Spud mud consisting of fresh water gel flocculated with Lime. Use ground paper for seepage control and to sweep the hole. MW-8.5 ppg and Vis-40.

<u>650 - 4600'</u>

Drill out with brine water circulating the inner portion of the reserve pit. Utilize ground paper mixed in prehydrated fresh gel to sweep the hole. MW-10.0 ppg and Vis-28.

4600 - 14,400'

Drill out with fresh water circulating the outer portion of the reserve pit. Maintain pH at 8.5-9.5 with caustic and sweep the hole as necessary with ground paper. At \pm 9,300' begin circulating the steel pits. If it becomes necessary to mud up due to hole conditions, utilize a XCD Polymer/Drispac Plus mud system with a 38-40 vis. and 15-20 cc WL. MW 8.6-9.1 ppg.

EXHIBIT D AUXILIARY EQUIPMENT Santa Fe Energy Resources, Inc. Maljamar "15" Fed. No. 1 Section 15, T-17-S, R-32-E Lea County, New Mexico

DRAWWORKS BDW 650M 650 HP, with Parmac Hydromatic brake

- ENGINES Two Caterpillar D-353 diesels rated at 425 HP each
- ROTARY Ideco 23", 300 ton capacity
- MAST/SUB Ideal 132', 550,000 lb rated static hook load with 10 lines. Wagner 15' high substructure
- **TRAVELLING** Gardner-Denver, 300 ton, 5 sheave w/BJ 250 ton hook. **EQUIPMENT** Brewster Model 7 SX 300 ton swivel
- **PUMPS** Continental-EMSCO DC-700 and DB-550, 5-12 x 16" Duplex, Compound driven
- **PIT SYSTEM** 1-Shale Pit 6X7X35', 1-Setting Pit 6X7X38', 1-Suction Pit 6X7X34' w/5 mud agitators. Two centrifugal mud mixing pumps and a Double Screen Shale Shaker.
- LIGHT Two CAT 3306 diesel electric sets 180 KW prime power PLANT
- BOP13-5/8" 5000 psi WP double ram and 13-5/8" 5000 psi WP ShafferEQUIPAnnular Preventer. Choke manifold rated at 5000 psi. Valvcon 5-
station 80 gallon closing unit

LOCATION & ELEVATION VERIFICATION MAP



maps, and other data available to us

TOPOGRAPHIC LAND SURVEYORS

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EXHIBIT F EXISTING WELLS SANTA FE ENERGY RESOURCES, INC. Maljamar "15" Fed. No. 1 1310' FNL & 1310 FEL Section 15, T-17-S, R-32-E Lea County. New Mexico



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SANTA FE ENERGY RESOURCES, INC. MULTI-POINT SURFACE USE AND OPERATIONS PLAN Maljamar "15" Fed. No. 1 Section 15, T-17-S, R-32-E Lea County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed by rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS.

A. Exhibit E is a 15 minute topographic map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 1.5 miles southeast of Maljamar, New Mexico.

DIRECTIONS

 From the Jct of State Hwy 33 & U.S. Hwy 82, go south 0.6 miles on Hwy 33, then southeast 0.8 miles on County Road, then south 800' on lease road to a point ±700' north of the location.

2. PLANNED ACCESS ROAD.

- A. Build 700' of new access road south to the proposed location.
- 3. LOCATION OF EXISTING WELLS.
 - A. The well locations in the vicinity of the proposed well are shown in Exhibits E.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. There are two shallow producing oil wells on this lease at this time.
- B. In the event the well is productive, the necessary production equipment will be installed on the drilling pad.

5. LOCATION AND TYPE OF WATER SUPPLY.

A. It is planned to drill the well with both fresh water and brine water systems. Both types of waters will be hauled to the location by truck over existing roads. Both types will be obtained from commercial sources.

Maljamar "15" Fed. No. 1 Multi-point Surface Use and Operations Plan Page 2

- 6. SOURCES OF CONSTRUCTION MATERIALS.
 - A. Any caliche required for construction of the drilling pad will be obtained from a pit approved by the BLM.

7. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be either placed in the reserve pits and allowed to evaporate or collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the BLM for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Human waste will be disposed of per current standards.
- F. Trash, waste paper, garbage, and junk will be collected in trash trailers and disposed of in an approved waste facility such as a land fill. The trash trailers will contain all of the material to prevent scattering by the wind.
- G. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES

None Required at this time.

9. WELLSITE LAYOUT

- A. Exhibit G shows the dimensions of the well pad and reserve pits, and the location of major rig components.
- B. The ground surface of the location is relatively flat. Minor cutting will be required to level the pad area, which will be covered with at least six inches of compacted caliche.
- C. The reserve pits will be plastic lined.
- D. A 400' X 400' work area which will contain the pad and pit area has been staked and flagged.

10. PLAN FOR RESTORATION OF THE SURFACE

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluid will be fenced until they have been filled.

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C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 300 days after abandonment.

11. TOPOGRAPHY

- A. The wellsite is located in a relatively flat area.
- B. The top soil at the wellsite is sandy.
- **C.** The vegetation cover at the wellsite is moderately sparse, with prairie grasses, some mesquite bushes, and shinnery oak.
- D. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.

OPERATOR'S REPRESENTATIVES

A. The field representatives responsible for assuring compliance with the approved surface use plan are:

Michael R. Burton Division Operations Manager Santa Fe Energy Resources, Inc. 550 W. Texas, Suite 1330 Midland, Texas 79701 915-686-6616 - office 915-559-6842 - cellular

CERTIFICATION

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

SIGNED this 5th day of October 1998.

James P. (Phil) Stinson Agent for Santa Fe Energy Resources, Inc.

LOCATION & ELEVATION VERIFICATION MAP



TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382

6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654–3219

2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653