UHC Z.19.96



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January 29, 1996

Michael Stogner New Mexico Oil Conservation District P. O. Box 1980 Hobbs, NM 88240

Dear Mr. Stogner:

Santa Fe Energy Resources hereby requests approval to commingle Bone Spring and Delaware production in the Mesa Verde "7" Federal #7, located 990' FWL & 330' FNL of Sec 7, T24S, R32E, in Lea County, NM. A plat of the area is attached. Daily production from December for the Bone Spring zone is also attached. The Delaware was only swab tested for a short time. The estimated bottom-hole pressure for each zone is around 1500 psi. Both zones produce 42° to 41° API gravity oil and the water analysis from each zone is attached. The value of the commingled oil will be the same. The oil is currently commingled at the battery from different wells.

The production will be allocated on a percent basis with 20% allocated to the Delaware and 80% to the Bone Spring.

Santa Fe Energy Resources operates all the offset proration units and the BLM has been notified in writing of the proposed commingling.

Sincerely,

James Blow

James Blount Production Engineer

Central Division 550 W. Texas, Suite 1330 Midland, Texas 79701 915/687-3551

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Mesa Verde "7" Fed # 7 330' FNL & 990' FWL Section 7, T-24-S, R-32-E 40 Acre Proration

SFER, INC. Offset Acreage

Santa Fe Energy Resources, Inc. Central Division Midland, Texas

LEA COUNTY, NEW MEXICO

OSPREY PROSPECT

SCALE: 1":4000'

DATE: 10/31/95 FILE:

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Laboratory Services, inc.

Laborator

1831 Tasker Drive Hobbs, New Mexico 88240

Telephone: (505) 397-3713

WATER ANALYSIS

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carbonate alkilinity PPM	1,680		
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pecific Gravity @ 60" F	1.079		
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Langelier Saturation Index +1.89 ••••

Analysis by

Rolland Perry 09-25-94 Date

Laboratory Services, Inc.

1331 Tasker Drive Hobbs, New Mexico 88240



Telephone: (505) 397-3713

WATER ANALYSIS

COMPANY Santa Fe Ener	gy	
SAMPLE Mesa Verde 7-	2	·····
SAMPLED BY		
DATE TAKEN	1	
REMARKS		
Barium as Ba	5.00	
Carbonate alkalinity PPM	0	
Bicarbonate alkilinity PPM	104	
pH at Lab	6.45	
Specific Gravity @ 60° F	1.165	
Magnesium as Mg	22,910	
Total Hardness as CaCO3	39,500	
Chlorides as Cl	150,025	
Sulfate as SO4	375	
Iron as Fe	186.25	
Potassium	53.75	
Hydrogen Sulfide	0.00	
Resistivity Ohms	0.0420	23.3° C
Total Dissolved Solids	213,750	
Calcium as CA	16,590	
Nitrate	13.20	
	·····	

Results reported as Parts per Million unless stated

Langelier Saturation Index +0.9

Analysis by Rolland Perry Date: 11-01-95

31-DAY PRODUCTION	SANTA FE ENERGY RESOURCES	MONTHLY WELL DETAIL	THE OILFIELD WORKSTATION
CTION	OURCES	DETAIL	KSTATION

COMMENTS

RUN DATE : 01/24/96

HISTORY

PUMPER NAME LEASE NAME DAY WELL NAME : MESA VERDE 7 FEI PRODUCING METHOD : SR - SUCKER ROD WELL NAME FOREMAN NAME ഗതപറ ... SPM CHOKE --SITP---8.0 8 0 8 0 8.0 8.0 8.0 PSI HRS 00 0 0 0 0 0 : ROY HANNIGAN : CARLSBAD ROUTE 1 (JOE H.) : MESA VERDE 7 FED #7 : MESA VERDE 7 FED #7 0 0 0 c c 0 ŗ TUB 250 250 250 250 250 250 250 250 250 250 250 250 CAS PSI 120 120 120 120 120 120 120 120 120 120 120 120 120 SEP 00 0 0 0 0 0 LINE PRESS 0 0 0 0 0 0 HRS RS DOMN 0 ł REASON DESCRIPTION -----OIL PROD $\begin{array}{r} 334.12\\ 39.48\\ 55.78\\ 32.92\\ 35.58\\ 35.58\\ 43.55\\ 43.12\\ 43.61\\ 44.59\\ 44.59\\ 39.01\\ 50.16\\ 5$ 44.59 37.31 42.91 56.21 50.59 29.61 44.78 53.75 47.68 49.45 41.17 35.11 3.30 GAS PROD 106.97 102.92 109.93 109.35 126.26 138.83 144.05 127.74 122.44 132.06 140.20 133.90 131.08 117.61 125.05 129.54 154.37 175.38 192.78 205.82 201.47 211.62 211.48 209.38 129.43 207.28 WATER PROD 14.32 14.35 17.72 1.06 10.96 9.87 6.87 9.05 5.72 3.80 1.70 0.54 1.75 2.40 2.148.18 0.87 3.70 3.68 0.65 4.77 5,80 7,19 3,68 4.86 8.29

TOTALS :

1312.35

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106.43

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DEPARTMENT OF				
n for proposals to drill or to	deepen or reentry to a different reservoir.	651LIndian, Allottee or Tribe Name		
SUBMIT IN TRIPLICATE				
1. Type of Well Xi Oil Well Gas Well Well Other 2. Name of Operator Santa Fe Energy Resources, Inc.				
 Address and Telephone No. <u>550 W. Texas, Suite 1330, Midland, TX 79701</u> 915-686-6614 Location of Well (Footage, Sec., T., R., M., or Survey Description) (D), 330' FNL & 990' FWL, Sec. 7, T-24S, R-32E 				
PPROPRIATE BOX(s) TO	NDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA		
JBMISSION	TYPE OF ACT	FION		
fIntent	Abandonment Recompletion	Change of Plans New Construction		
ent Report	Plugging Back Casing Repair Altering Casing	Non-Routine Fracturing Water Shut-Off Conversion to Injection		
	DEPARTMENT OF BUREAU OF LANI SUNDRY NOTICES AND RI In for proposals to drill or to be "APPLICATION FOR PER! SUBMIT IN Other Counces, Inc. O. Suite 1330, Midland e, Sec., T., R., M., or Survey Description NL & 990' FWL, Sec.	BUREAU OF LAND MANAGEMENT BECS of Strength of the proposal state of the propresent state of the proposal state of the proposal sta		

Bone Spring formation (perfs 8522'.8544') and produced the interval for 1.1/2 months. The production from the zone was economic, but would not payout the well. A RBP was set above the Bone Spring interval and a Delaware zone at 7284'.7303' was perforated, acidized and swab tested. The production from the Delaware interval swab tested at 16 BOPD and 48 BWPD. It was decided not to fracture treat the Delaware zone for fear of high water production and the RBP was pulled to produce the Bone Spring. We are now respectfully submitting a request to commingle the two zones instead of squeezing off the Delaware.

	SUBJECT TO Like Approval By State	REA HEAD UNATERS
14 I hereby certific that the foregoing is true and correct Signed	oduction Clerk	
Conditions of approval, if any:	EUM ENGINEER	3/8/96
Submit Completion Report fo Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make or representations as to any matter within its jurisdiction.		tes any false, fictitious or fraudulent statements

MESA VERDE "7" FEDERAL #7 DOWN HOLE COMMINGLING REQUEST DATA

1) The total combined daily oil production from the zones will be less than 50 BOPD. The Bone Spring zone at 8600' had a stabilized production averaging 45 BOPD and the Delaware zone at 7300' swab tested at 16 BOPD declining daily.

2) Both zones require artificial lift.

3) The Bone Spring zone produced 3 BWPD and the Delaware tested at 60 BWPD.

4) The fluids are compatible with the oil 41 to 42 gravity in each zone.

5) The total value of the crude will not be reduced by commingling. The oil is currently commingled at the battery from the two intervals in different wells. Both zones have API gravity oil in the 41 to 42 degree range.

6) Ownership of the zones is common.

7) The commingling will not jeopardize the efficiency of the recovery operations. It will allow each zone to be produced to a lower level than if the zones were produced separately. If the Delaware zone has to be squeezed, it could risk the recovery of the Bone Spring production.