Care 3989

#### EXHIBIT III

#### NEW MEXICO OIL AND GAS COMMISSION WATERFLOOD APPLICATION DATA

FIELD	Loco Hills	COUNTY	Eddy		
OPERATOR_	Anadarko Production Con	mpany		DATE <u>11</u>	-11-68
LEASE	Far West Loco Hills San	ıd Unit			
RESERVOIE	Zone (4) Grayburg (Loco	Hills Sand)	DISCOVERY J	DATEJai	nuary, 1939
1. RESERV	OIR AND FLUID CHARACTERI	STICS			
I	A. Information on entire	reservoir			
3	1. Name of Formation Lot 2. Estimated productiv 3. Composition (Sand, 4. Type of structure 5. Type drive during p 6. Original reservoir 7. Was gas cap present 8. Information on propose (Include plat of lease injection wells, and 1. Number of productiv 2. Average depth to to 3. Average effective p 4. Average porosity (% 5. Average horizontal 6. Connate water conte 7. Gravity of oil (API	e area of entire res Limestone, Dolomite,  Monocline (include cross-secti rimary production pressure 1000 PS originally? NO  d project area  (s) to be flooded, offset wells).  e acres in lease (s) p of pay (feet) ay thickness (feet) ) 16.4% (Estip permeability (mds.)5 nt (% of pore space)	ervoir etc.) Solution Gas IG (Estimated At presented)  to be flood 2400  8 mated) 4(est.) Ran	t NO  ucing we  ed  nge Unk	s)  11s, proposed  840  nown
II. PRIMA	ARY PRODUCTION HISTORY				
	<ol> <li>Date first well com</li> <li>Oil, gas, water prowell as in tabular</li> <li>Stage of depletion</li> <li>Number of producing</li> <li>Average daily oil p</li> <li>Cumulative oil prod</li> </ol>	duction by months siform.)Table 2 & figu of project areaStrip; wells on each lease roduction per well a	nce discover res 6 thru 17 per-All wells in project at present ti	y. (Grap attached below d area See me 1 BOP	hically as I Engineering approached limit. I attached list. D / Producing we
III. RES	ULTS - EXPECTED				
	<ol> <li>Estimated original</li> <li>Estimated saturatio</li> <li>Estimated residual</li> <li>Estimated ultimate a result of injection</li> </ol>	on at present time (% oil saturation at al	of pore spa candonment vill be recov	ce) <u>5</u> 20.0% ered as	
IV. INJE	CTION				
	<ol> <li>Source of injected</li> <li>Fresh or salt water</li> <li>Flood pattern and s</li> <li>Initial injection p</li> </ol>	r <u>Fresh</u> spacing <u>Modified 5</u> :	spot		Vater Company

5. Estimated initial per well rate of injection (bbls.)

6. List complete injection well data on reverse side of this sheet

#### INJECTION WELL DATA

	<b>\$</b>		FWLHSU	Banner - Miller No. 1	Gordon Cone J.L.Langford No. 2	FWLHSU
	WELL NO.	FWLHSU 8-8 (To be drilled)	2-3 (To be drilled)	FWLHSU 1-1 (Re-entry P & A Well)	FWLHSU 10-2 (Conversion)	6-2 (To be drilled)
Sur. csg.	Size Length Sxs. Cement	8 5/8" 250 <b>"</b> 150 sx	8 5/8" 250' 150	Unknown	Unknown	8 5/8" 250' 150
Prod.	Size Length Sxs. Cement	$4\frac{1}{2}$ " 2550 200	4½" 2550' 200	7" 2397' 100	7" 2338' 100	$4\frac{1}{2}$ " 2550' 200
Tubing	Length Packer Depth	2240(Est.)	1	2240(Est.) 2240 (Est.)	2240(Est.) 2240(Est.)	2240(Est.) 2240(Est.)
Inj.	Depth Thru casing. or tubing?	2480-2500 Est. Tubing	2450-2470 (Est.) Tubing	2525-2555 Tubing	2457-2473 Tubing	2465-2480(Est.) Tubing

## FAR WEST LOCO HILLS SAND UNIT LOCO HILLS FIELD EDDY COUNTY, NEW MEXICO

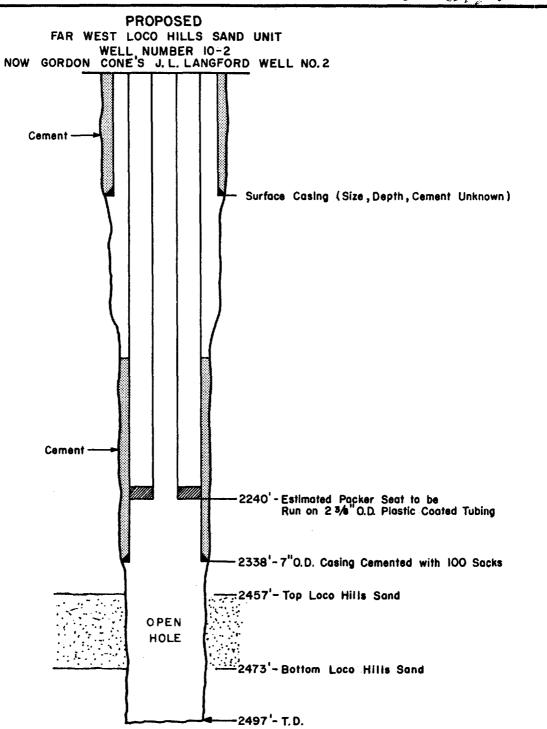
#### PRODUCING WELL TABULATION

Company	Lease	Well No.	Producing	<u>Inactive</u>
Anadarko Production Co.	H.G. Watson 4-185-29E Tract 8	1 2 3 4 5 1-A 2-A	NO NO NO NO YES YES	YES YES YES YES NO NO
	J.L.Langford 9-185-29E Tract 9	1 2 3 5 6	YES YES NO NO YES	NO NO YES YES NO
	State L-16 16-185-29E Tract 5	1	YES	NO
	State 0-16 16-185-29E Tract 2	1	NO	YES
	Kemper State 16-185-29E Tract 2	1	NO	YES
Depco, Inc.	Banner-Miller 4–185–29E Tract 1	1 2	NO NO	YES YES
Gordon M. Cone	J.L.Langford 9-185-29E Tract 10	1 2	NO YES	YES NO
J. Cleo Thompson	J.L.Langford 9-185-29E Tract 11	1 2	YES NO	NO YES
Cities Service Oil Co.	Tallmadge "A" 16-185-29E Tract 3	1	YES	NO
	Brookover "A" 16-185-29E Tract 4	1	YES	NO

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Company	<u>Lease</u>	Well No.,	Producing	Inactive
Newmont Oil Corp.	Breezy State 16-185-29E Tract 6	1	YES	ИО
	State B 16-185-29 <b>E</b> Tract 7	1 2	NO YES	YES NO
TOTAL			12	14

Care 3478

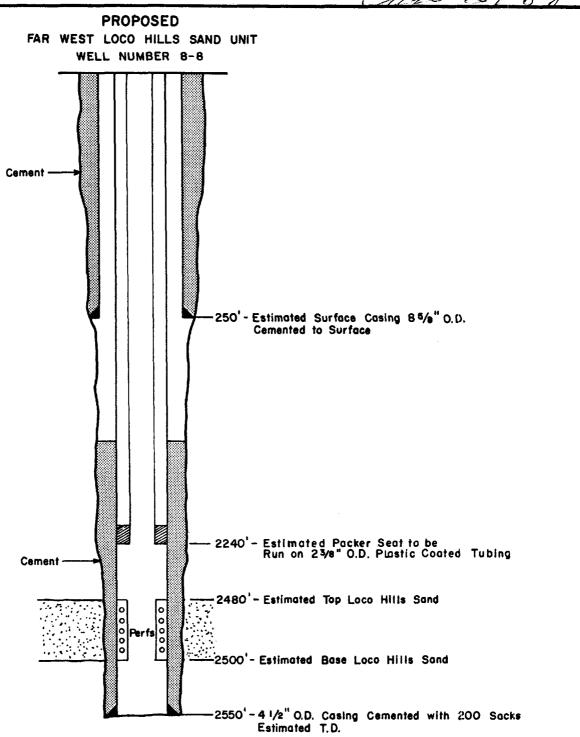




## ANADARKO PRODUCTION COMPANY

FAR WEST LOCO HILLS SAND UNIT
LOCO HILLS FIELD
EDDY COUNTY, NEW MEXICO
DIAGRAMMTIC SKETCH
OF
PROPOSED COMPLETION
OF
TYPICAL WATER INJECTION WELL
TO BE CONVERTED FROM PRODUCING
STATUS EXHIBIT TY

Care 3988





### ANADARKO PRODUCTION COMPANY

FAR WEST LOCO HILLS SAND UNIT
LOCO HILLS FIELD
EDDY COUNTY, NEW MEXICO
DIAGRAMMATIC SKETCH
OF
PROPOSED COMPLETION
OF
TYPICAL WATER INJECTION WELL
TO BE DRILLED

EXHIBIT\_ VI

Care 3988 R-29-E Depco, Inc. J.C.Thompson J C.Thompson Depco, Inc. B. Miller Harlan Prod.Co. Depco, Inc Bonner Miller Miller Fed. Miller Fed. Miller Fed. J.C.Thompson Harlan Prod Co. Anadarko 43 . Federal U.S. **Yates** Murdock Anadarko Anadarko T T 18 18 .3 Gordon M Cone S S J-L-Langford J. Cleo. Thompson ABA 42 U.S. Federal II Cities Service J C Thempson | J C.Thompson Anadarka Newmont 1 88 State L-16 Tallmadge " 065359 Trovis Fea R Anadarka Newmont Oil 17 Travis Fed 065359 Harvey E. Yates Sunray Mid Continent Cities Service 8-5084 ANADARKO THIDARES PRODUCTION COMPANY 061220 State FAR WEST LOCO HILLS SAND UNIT R-29-E LEGEND LOCO HILLS FIELD ABANDONED OIL WELL EDDY COUNTY, NEW MEXICO TEMPORARILY ABANDONED OIL WELL GAS WELL PROPOSED WATERFLOOD DEVELOPMENT DRY HOLE BOUNDARY - ANADARKO OPERATED WATER INJECTION WELL 4000 UNIT BOUNDARY - NEWMONT OPERATED Plat shows wells that have produced TRACT NUMBER DATE 11-8-68 EXHIBIT VII oil from zone 4 of Grayburg

# FAR WEST LOCO HILLS SAND UNIT DEVELOPMENT PROGRAM PROPOSED WATERFLOOD OPERATIONS ZONE 4 GRAYBURG (LOCO HILLS SAND) LOCO HILLS FIELD EDDY COUNTY, NEW MEXICO

#### I. First Quarter 1969

- A. Drill line water input well (8-8) on Anadarko's H. G. Watson lease 10' NSL 2630' WEL of Section 4, T-18S, R-29E.
- B. Drill water input well (2-3) on Anadarko's State 0-16 lease 330' SNL 1980' WEL of Section 16, T-18S, R-29E.
- C. Re-enter and complete as water input well Depco's Banner Miller Well No. 1 (1-1).
- D. Drill line water input well (6-2) on Newmont's west Loco HILLS GRAYBURG NO.4 SIND WAIT

  Breezy State lease 1310' SNL 10' WEL EWL

  Section 16', T-18S, R-29E (50% Newmont Unit 
  50% Anadarko Unit).
- E. Convert Gordon M. Cone's J. L. Langford Well No. 2 (10-2) to water input.
- F. Construct water injection plant to serve five (5) water input wells one injection pump and engine to give 3,000 BWPD capacity at 1200 psi.
- G. Install water injection system to five (5) water input wells.
- H. Plug back Anadarko's H. G. Watson Well
  No. 1-A (8-6) and 2-A (8-7), J. L. Langford Well No.6
  (9-6) and State L-16 Well No. 1 (5-1) and Cities
  Service's Tallmadge Well No. 1 (3-1) and Brookover
  Well No. 1 (4-1).

#### II. Second Quarter 1969

- A. Re-enter and complete for production Depco's
  Banner Miller Well No. 2 (1-2) including production
  equipment.
- B. Re-enter and complete for production J. Cleo Thompson's J. L. Langford Well No. 2 (11-2) including production equipment.

- C. Recondition Anadarko's J. L. Langford Well No. 1 (9-1) and J. L. Langford Well No. 2 (9-2) for production.
- D. Recondition Cities Service Tallmadge "A" No. 1 (3-1) Well for production.
- E. Recondition Newmont's Breezy State No. 1 (6-1) Well, and State "B" No. 2 (6-2) Well for production.

#### III. Third Quarter 1969

- A. Re-enter and recondition Gordon M. Cone's J. L. Langford No. 1 (10-1) Well for production.
- 3. Drill water input well (8-9) on Anadarko's H. G. Watson lease approximately 1330' NSL and 2630' WEL Section 4, T-18S, R-29E.

#### IV. Fourth Quarter 1969

- A. Drill water input well (10-3) on Gordon M. Cone's J. L. Langford Lease approximately 10' EWL and 1330' NSL Section 9, T-18S, R-29E.
- B. Convert to input Cities Service's Brookover "A" No. 1 (4-1) Well.
- C. Re-enter and condition for injection Anadarko's H. G. Watson No. 1 (8-1) Well.
- D. Consolidate tank battery and gathering system.
- E. Expand injection system and plant.
- F. Larger pumping equipment for Newmont's Breezy State No. 1 (6-1).
- G. Convert Anadarko's State L-16 No. 1 (5-1) Well to injection.
- H. Convert Anadarko's J. L. Langford No.5 (9-5) Well to injection.

#### V. First Quarter 1970

- A. Drill producing well (7-3) on Newmont's State "B" Lease approximately 1650' SNL and 1650' WEL of Section 16, T-18S, R-29E.
- 2. Larger pumping equipment for Anadarko's J. L. Langford No. 2 (9-2) Well and H. G. Watson's No. 1-A (8-6) Well.

C. Drill producing Well (9-7) on Anadarko's J. L. Langford Lease approximately 2310 SNL and 1650 EWL of Section 9, T-18S, R-29E.

#### VI. Second Quarter 1970

- A. Drill producing well (8-10) on Anadarko's H. G. Watson Lease approximately 660' NSL and 1980' EWL of Section 4, T-18S, R-29E.
- B. Drill producing well (11-3) on J. Cleo Thompson's Lease approximately 1650' EWL and 330' NSL of Section 9, T-18S, R-29E.

# FAR WEST LOCO HILLS SAND UNIT TRACT AND WELL DESIGNATION LOCO HILLS FIELD EDDY COUNTY, NEW MEXICO

	Old Designation		New Designation	
Company	Lease	Well No.	Tract No.	Well No.
Depco, Inc.	Banner Miller	1	1	1-1
Depco, Inc.	Banner Miller	2	ī	1-2
Anadarko Producion Co.	State 0-16	1	2	2-1
Anadarko Production Co.	Kemper State	1	2	2-2
Cities Service Oil Co.	Tallmadge "A"	1	3	3-1
Cities Service Oil Co.	Brookover "A"	1	4	4-1
Anadarko Production Co.	State L-16	1	5	5~1
Newmont Oil Company	Breezy State	1	6	6-1
Newmont Oil Company	State "B"	1	7	7-1
Newmont Oil Company	State "B"	2	7	7-2
Anadarko Production Co.	H. G. Watson	1	8	8-1
Anadarko Production Co.	H. G. Watson	2	8	8-2
Anadarko Production Co.	H. G. Watson	3	8	8-3
Anadarko Production Co.	H. G. Watson	. 4	8	8-4
Anadarko Production Co.	H. G. Watson	5	8	8-5
Anadarko Production Co.	H. G. Watson	1-A	8	8~6
Anadarko Production Co.	H. G. Watson	2-A	8	8-7
Anadarko Production Co.	J. L. Langford	1	9	9-1
Anadarko Production Co.	J. L. Langford	2	9	9-2
Anadarko Production Co.	J. L. Langford	. 3	9	9-3
Anadarko Production Co.	J. L. Langford	5	9	9-5
Anadarko Production Co.	J. L. Langford	6	9	96
Gordon M. Cone	J. L. Langford	1	10	10-1
Gordon M. Cone	J. L. Langford	2	10	10-2
J. Cleo Thompson	J. L. Langford	1	11	11-1
J. Cleo Thompson	J. L. Langford	2	11	11-2