

#4429



PATRICK H. LYONS
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

January 10, 2003

Phoenix Hydrocarbons Operating Corporation
P.O. Box 3638
Midland, Texas 79702

Attn: Mr. Gregory F. Baiano

Re: Resignation/Designation of Successor Unit Operator
Langlie-Jal Unit
Lea County, New Mexico

Dear Mr. Baiano:

We are in receipt of your resignation/designation of successor unit operator, wherein Kenson Operating Company, Inc. has resigned as unit operator of the Langlie Jal Unit and designated Phoenix Hydrocarbons Operating Corporation as the successor unit operator.

The Commissioner of Public Lands has this date approved the resignation of Kenson Operating Company, Inc. and the designation of Phoenix Hydrocarbons Operating Corporation as the successor unit operator of this unit.

This change in operators is effective October 1, 2002. In accordance with this approval, Phoenix Hydrocarbons Operating Corporation, Inc. is now responsible for all operations and the reporting of all production from this unit.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

PATRICK H. LYONS
COMMISSIONER OF PUBLIC LANDS

A handwritten signature in cursive script, appearing to read "Jami Bailey".

BY:
JAMI BAILEY, Director
Oil/Gas and Minerals Division
(505) 827-5744

PL/JB/cpm
xc: Reader File Kenson Operating Company, Inc. OCD-Roy Johnson TRD BLM

COMMISSIONER'S OFFICE

Phone (505) 827-5760
Fax (505) 827-5766

ADMINISTRATION

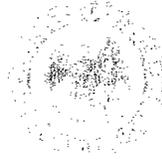
Phone (505) 827-5700
Fax (505) 827-5853

GENERAL COUNSEL

Phone (505) 827-5713
Fax (505) 827-4262

PUBLIC AFFAIRS

Phone (505) 827-1245
Fax (505) 827-5766



COMMERCIAL RESOURCES

Phone (505) 827-5724
Fax (505) 827-6157

MINERAL RESOURCES

Phone (505) 827-5744
Fax (505) 827-4739

ROYALTY MANAGEMENT

Phone (505) 827-5772
Fax (505) 827-4739

SURFACE RESOURCES

Phone (505) 827-5793
Fax (505) 827-5711

**New Mexico State Land Office
Commissioner of Public Lands
Ray Powell, M.S., D.V.M.**

March 4, 2002

Kenson Operating Company, Inc.
P.O. Box 3531
Midland, Texas 79702

Attn: Mr. M. A. Sirgo, III

Re: 2002 Plan of Development
Langlie Jal Unit
Lea County, New Mexico

Dear Mr. Sirgo:

The Commissioner of Public Lands has, of this date, approved the above-captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: 
JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

RP/JB/cpm
xc: Reader File

OCD

BLM

**DESIGNATION OF SUCCESSOR UNIT OPERATOR
LANGLIE JAL UNIT AREA
COUNTY OF LEA, STATE OF NEW MEXICO**

NO. 14-08-0001-11587

THIS INDENTURE, dated as of the 1st day of October, 2002, effective the 1st day of October, 2002, by and between Phoenix Hydrocarbons Operating Corporation, whose address is P. O. Box 3638, Midland, Texas 79702, hereinafter designated as "First Party", the Owners of the Unitized Working Interests, hereinafter designated as "Second Party", and Kenson Operating Company, Inc., whose address is 600 Travis, Suite 7050, Houston, Texas 77002, hereinafter designated as "Third Party".

WITNESSETH:

WHEREAS, under the provisions of the Act of February 25, 1920, 41 Stat. 437, 30 U.S.C. Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior, on the 4th day of January, 1971, approved a unit agreement for the Langlie Jal Unit Area, wherein Meridian Oil, Inc. was designated as Unit Operator, and subsequently approved Kenson Operating Company, Inc., as Successor Unit Operator; and

WHEREAS, said Third Party has resigned as such Successor Unit Operator and the designation of another Successor Unit Operator is now required pursuant to the terms thereof; and

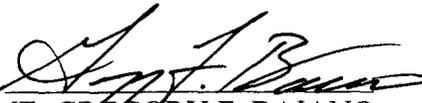
WHEREAS, the First Party has been and hereby is designated by the Second Party as Unit Operator, and said First Party desires to assume all the rights, duties and obligations of Unit Operator under the said unit agreement.

NOW THEREFORE, in consideration of the premises hereinbefore set forth and the promises hereinafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Unit Operator under and pursuant to all the terms of the unit agreement, and the Second Party covenants and agrees that, effective upon approval of this indenture by the Authorized Office of the State of New Mexico, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Unit Operator, pursuant to the terms and conditions of said unit agreement; said unit agreement being hereby incorporated herein by reference and made a part hereof as fully and effectively as though said unit agreement were expressly set forth in this instrument.

This instrument may be executed in multiple counterparts, none of which need to be executed by all parties hereto, but this instrument shall be binding on all parties who execute same.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth, effective the 1st day of October, 2002.

FIRST PARTY:
PHOENIX HYDROCARBONS OPERATING CORP.

BY: 
NAME: GREGORY F. BAIANO
TITLE: PRESIDENT

SECOND PARTY:
SONTERRA RESOURCES, L.P.
BY: RIMCO ENERGY, INC.
Its General Partner

BY: [Signature]
NAME: A. LEE JORDEN
TITLE: PRESIDENT

THIRD PARTY:
KENSON OPERATING COMPANY, INC.

BY: [Signature]
NAME: A. LEE JORDEN
TITLE: PRESIDENT

I hereby approve the foregoing indenture, designating Phoenix Hydrocarbons Operating Corporation as Unit Operator under the Unit Agreement for the Langlie Jal Unit Area, this ____ day of _____, 2002.

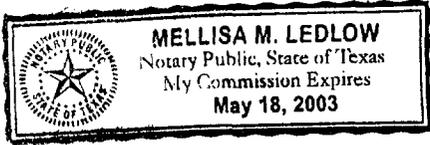
AUTHORIZATION:

BY: _____
Name: _____
TITLE: _____

ACKNOWLEDGEMENTS

STATE OF TEXAS §
COUNTY OF MIDLAND §

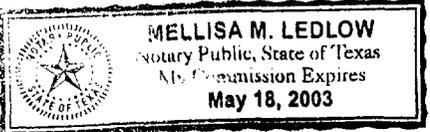
The foregoing instrument was acknowledged before me on this 1st day of October, 2002 by Gregory F. Baiano, President of Phoenix Hydrocarbons Operating Corporation, a Texas corporation, on behalf of said corporation.



[Signature]
NOTARY PUBLIC-STATE OF TEXAS

STATE OF TEXAS §
COUNTY OF HARRIS §

The foregoing instrument was acknowledged before me on this 1st day of October, 2002 by A. Lee Jorden, President of RIMCO Energy, Inc., as General Partner for Sonterra Resources, L.P., a Texas limited partnership, on behalf of said limited partnership.

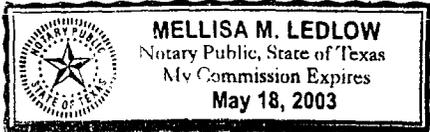


[Signature]
NOTARY PUBLIC-STATE OF TEXAS

STATE OF TEXAS §

COUNTY OF HARRIS §

The foregoing instrument was acknowledged before me on this 1st day of October, 2002 by A. Lee Jordan, President of Kenson Operating Company, Inc., a Texas corporation, on behalf of said corporation.



Mellisa M Ledlow
NOTARY PUBLIC-STATE OF TEXAS



#4429

COMMERCIAL RESOURCES
(505)-827-5724

SURFACE RESOURCES
(505)-827-5793

MINERAL RESOURCES
(505)-827-5744

ROYALTY
(505)-827-5772

State of New Mexico
Commissioner of Public Lands

Ray Powell, M.S., D.V.M.
310 Old Santa Fe Trail, P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Phone (505)-827-5760, Fax (505)-827-5766

PUBLIC AFFAIRS
(505)-827-5765

ADMINISTRATIVE MGMT.
(505)-827-5700

LEGAL
(505)-827-5715

PLANNING
(505)-827-5752

May 18, 1998

GP II Energy, Inc.
P.O. Box 50682
Midland, Texas 79710

Attn: Mr. Brian M. Sirgo

Re: 1998 Plan of Development
Langlie Jal Unit
Lea County, New Mexico

Dear Mr. Sirgo:

The Commissioner of Public Lands has, of this date, approved the above-captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the unit area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY:
JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

RP/JB/cpm
pc: Reader File

OCD

BLM



4429

State of New Mexico
Commissioner of Public Lands

(505) 827-5760
FAX (505) 827-5766

310 OLD SANTA FE TRAIL P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

RAY POWELL, M.S., D.V.M.
COMMISSIONER

January 10, 1996

Meridian Oil Inc.
Post Office Box 51810
Midland, Texas 79710-1810

Attn: Mr. W. D. Price III

Re: Resignation/Designation of Successor Unit Operator
Langlie Jal Unit
Lea County, New Mexico

Dear Mr. Price:

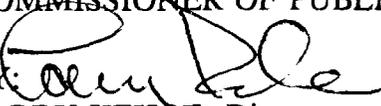
The Oil, Gas & Minerals Division received a resignation/designation of successor unit operator, wherein Meridian Oil Inc. resigned as unit operator of the Langlie Jal Unit, and designated GP II Energy, Inc. as the successor unit operator.

The Commissioner of Public Lands has this date approved the resignation/designation described herein. This change in operators is effective May 31, 1995. In accordance with this approval, GP II Energy, Inc. is now responsible for all operations and the reporting of all production from the unit. Our approval is subject to like approval by the Bureau of Land Management.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: 
LARRY KEHOE, Director
Oil, Gas & Minerals Division
(505) 827-5744

RP/LK/cpm
Enclosures

xc: Reader File
OCD-Roy Johnson

GP II Energy, Inc.
BLM-Roswell

Commissioner's File
TRD



THE COMMISSIONER OF PUBLIC LANDS
OIL/GAS AND MINERALS DIVISION
SANTA FE, NEW MEXICO

State of New Mexico
Commissioner of Public Lands

1995 JUN 5 10 52

RAY POWELL, M.S., D.V.M.
COMMISSIONER

310 OLD SANTA FE TRAIL P.O. BOX 1148

(505) 827-5760
FAX (505) 827-5766

SANTA FE, NEW MEXICO 87504-1148

June 5, 1995

Meridian Oil
P.O. Box 51810
Midland, Texas 79710-1810

Attention: Ms. Donna J. Williams

Re: 1995 Plan of Development
Langlie Jal Unit
Lea County, New Mexico

Dear Ms. Williams:

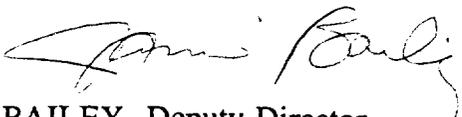
The Commissioner of Public Lands has this date approved the above-captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You may be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: 
JAMI BAILEY, Deputy Director
Oil/Gas and Minerals Division
(505) 827-5745

RP/JB/cpm
cc: Reader File
BLM
OCD-Roy Johnson

#4429



Union Texas Petroleum

February 23, 1990

90 APR 25 AM 9 08



Mr. Les Babyak
District Manager
Bureau of Land Management
P.O. Box 1397
Roswell, New Mexico 88201

Re: 1990 Plan of Development
Union Texas Petroleum - Operator
Langlie Jal Unit
Langlie Mattix Field
Lea County, New Mexico

Introduction

This is the Plan of Development/Plan of Operations for the Langlie Jal Unit for the Year 1990. Improving oil prices has renewed interest in infill drilling, well conversions, and well workovers. Production response to the 1987 six well workover program has been favorable. Attached is the Unit Performance Curve and a list showing the status of all unit wells during 1988 and 1989.

Summary

Two infill drill wells are planned for 1990. No conversions are planned. Results from the 1987 workover program indicate that select workovers may be economically feasible. One workover is currently planned for 1990. Two wells were plugged and abandoned in 1989. More wells are being evaluated to be shut in or plugged and abandoned due to uneconomic production. Fifteen injection wells will be cleaned out to increase injection rate.

If you have any questions regarding this report, please feel free to call me at 713-968-3658.

Sincerely,

Dennis H. Cowan, Manager
Regulatory and Environmental Services

BLG/DHC:mnd

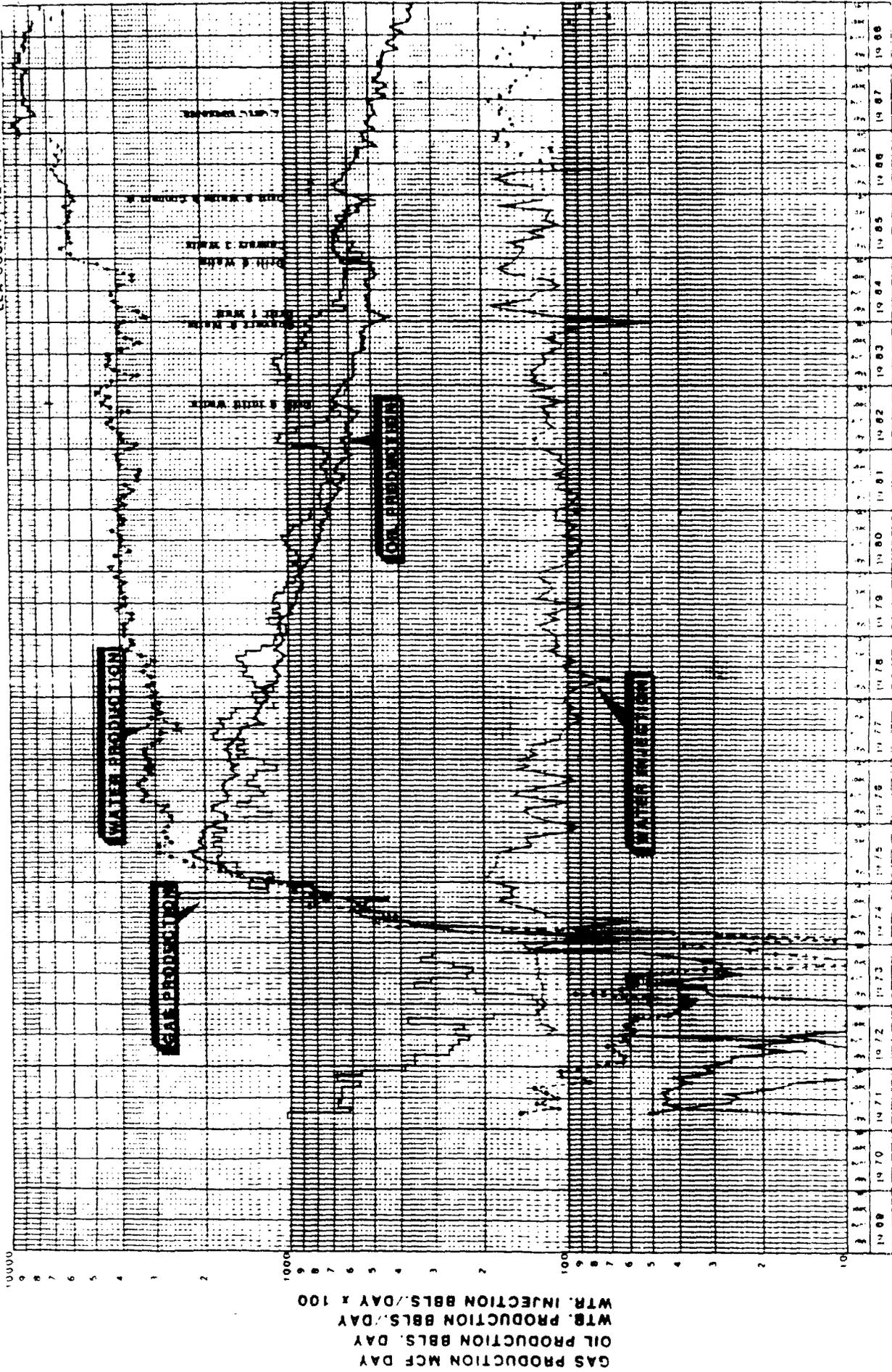
cc: J. A. Kopecky M. E. Wohl
C. W. Latch (Midland) G. T. Lepley

Plan of Development
APPROVED

APR 30 1990

Asst. DISTRICT MANAGER
BUREAU OF LAND MANAGEMENT

UNION TEXAS PETROLEUM CORPORATION
 LANGLIE JAL PERFORMANCE CURVE
 LEA COUNTY, NEW MEXICO



GAS PRODUCTION MCF DAY
 OIL PRODUCTION BBLS DAY
 WATER PRODUCTION BBLS DAY
 WATER INJECTION BBLS DAY X 100

UNION TEXAS PETROLEUM CORPORATION
 MONTHLY FLUID INJECTION REPORT 1988
 LAMBLE JAL UNIT

	January	February	March	April	May	June	July	August	September	October	November	December
Production												
Oil (bbls)												
Allowable	406579	16957	15863	16957	16410	13671	13230	13671	13671	12630	13051	12630
Produced	15895	12795	13669	11727	13195	11873	11680	12668	10775	10833	10540	10754
Daily Average	448	441	440	390	425	395	376	408	359	349	351	346
Cum. Since Proj.	13895	26690	40359	52086	65281	77154	88834	101502	112777	123110	135650	144404
Water (bbls)												
Produced	282436	252666	269645	251848	266581	248203	256988	243614	232898	205210	180018	224353
Daily Average	9110	8712	8698	8394	8405	8273	8289	7858	7633	6619	6000	7237
Z Total Fluid	95	95	95	96	95	95	96	95	96	95	94	95
Cum. Since Proj.	282436	535102	804747	1056595	1317176	1563379	1822367	2063981	2278879	2504069	2684107	2908460
Gas (MCF)												
Produced	12427	10929	11745	10607	10829	11076	11473	11549	9273	8042	7904	8610
GOR	894	854	859	904	821	933	982	912	841	742	750	801
Cum. Since Proj.	12427	23356	35181	45708	56537	67613	79066	90635	99908	107950	115854	124464
Injection												
Water (bbls)												
Injected	476536	501698	482897	495230	431308	385124	427429	413318	283820	216563	237399	268964
Daily Average	15372	17296	15351	14441	13913	12837	13788	13332	9460	6921	7913	8676
Cum. Since Proj.	70655681	71357289	71839386	72332616	72763924	73149048	73576477	73987975	74273615	74488178	74725577	74994541
Well Status												
Producing Active	0	42	42	42	42	42	42	42	42	42	41	39
Prod. Inactive	254272	10	10	10	10	10	10	10	10	10	11	13
Wtr. Inj. Active	406579	54	54	54	54	55	54	54	54	55	55	52
Wtr. Inj. Inact.	0	6	6	6	6	5	6	6	6	5	5	8
Wtr. Sup. Active	254272	1	1	1	1	1	1	1	1	1	1	1
Wtr. Sup. Inact.	406579	0	0	0	0	0	0	0	0	0	0	0
LO2 Inj. Active	0	0	0	0	0	0	0	0	0	0	0	0
LO2 Inj. Inact.	254272	0	0	0	0	0	0	0	0	0	0	0

UNION TEXAS PETROLEUM CORPORATION
 LANGLIE JAL UNIT
 INJECTION DATA 12/1988

Well Name	Days Injected	Total Barrels	Average BWPB	Pressure	Total Cumulative
LANGLIE JAL # 1 WTW	31	6094	197	560	1655084
LANGLIE JAL # 3 WTW	31	6214	200	50	2611548
LANGLIE JAL # 5 WTW	31	5401	174	420	1898479
LANGLIE JAL # 7 WTW	31	37	1	650	645929
LANGLIE JAL # 8 WTW	31	7212	233	30	727189
LANGLIE JAL # 9 WTW	31	5942	192	500	1884758
LANGLIE JAL # 10 WTW	31	1191	38	50	532445
LANGLIE JAL # 11 WTW	31	6260	202	210	3022666
LANGLIE JAL # 13 WTW	31	3317	107	45	2271572
LANGLIE JAL # 15 WTW	0	0	0	0	684593
LANGLIE JAL # 17 WTW	31	9975	322	280	1667622
LANGLIE JAL # 18 WTW	31	13294	429	340	747535
LANGLIE JAL # 19 WTW	31	11301	365	230	2422491
LANGLIE JAL # 20 WTW	31	7725	249	390	1003677
LANGLIE JAL # 21 WTW	31	1531	49	600	1346696
LANGLIE JAL # 22 WTW	0	0	0	0	54045
LANGLIE JAL # 23 WTW	31	55	2	540	628080
LANGLIE JAL # 24 WTW	31	0	0	550	192417
LANGLIE JAL # 25 WTW	31	2944	95	550	1782484
LANGLIE JAL # 26 WTW	31	15103	487	280	1135424
LANGLIE JAL # 27 WTW	31	323	10	580	1815480
LANGLIE JAL # 29 WTW	31	28406	916	260	2218540
LANGLIE JAL # 31 WTW	0	0	0	0	793608
LANGLIE JAL # 33 WTW	31	804	26	640	1526093
LANGLIE JAL # 34 WTW	31	5097	164	480	381937
LANGLIE JAL # 35 WTW	31	13973	451	440	2061268
LANGLIE JAL # 36 WTW	31	11844	383	460	694725
LANGLIE JAL # 37 WTW	31	7031	227	640	1599845
LANGLIE JAL # 38 WTW	0	0	0	0	101630
LANGLIE JAL # 39 WTW	31	0	0	600	244031
LANGLIE JAL # 41 WTW	31	11921	385	600	2078159
LANGLIE JAL # 43 WTW	31	3120	101	650	1306623
LANGLIE JAL # 44 WTW	31	176	6	390	543454
LANGLIE JAL # 45 WTW	31	5625	181	580	911015
LANGLIE JAL # 46 WTW	31	14105	455	490	632290
LANGLIE JAL # 47 WTW	31	4965	160	500	859491
LANGLIE JAL # 49 WTW	31	0	0	640	1214430
LANGLIE JAL # 51 WTW	31	12501	403	0	1168734
LANGLIE JAL # 53 WTW	31	816	26	0	1531709
LANGLIE JAL # 55 WTW	31	544	18	640	1410400
LANGLIE JAL # 57 WTW	31	203	7	600	1551874
LANGLIE JAL # 59 WTW	31	3120	101	680	1614492
LANGLIE JAL # 60 WTW	31	7953	257	430	301941
LANGLIE JAL # 61 WTW	31	483	16	570	986285
LANGLIE JAL # 63 WTW	31	923	30	670	580686
LANGLIE JAL # 64 WTW	31	8993	271	570	507229
LANGLIE JAL # 65 WTW	31	3491	119	570	1008152
LANGLIE JAL # 67 WTW	31	573	18	640	1745412
LANGLIE JAL # 69 WTW	31	169	5	25	2025172
LANGLIE JAL # 71 WTW	31	47	2	640	526750
LANGLIE JAL # 72 WTW	31	2680	86	560	447537
LANGLIE JAL # 73 WTW	31	4130	133	670	2076688
LANGLIE JAL # 75 WTW	31	2241	72	680	1384069
LANGLIE JAL # 77 WTW	31	1011	33	650	995015
LANGLIE JAL # 79 WTW	31	483	16	580	672554
LANGLIE JAL # 81 WTW	31	835	27	510	1857099
LANGLIE JAL # 83 WTW	0	0	0	0	1356966
LANGLIE JAL # 85 WTW	31	1273	41	560	2576084
LANGLIE JAL # 89 WTW	31	2812	91	710	1332421
LANGLIE JAL # 93 WTW	31	3075	99	570	1582877
Totals:		268964			74994341

UNION TEXAS PETROLEUM CORPORATION
 LANGLIE JAL UNIT
 PRODUCTION DATA 12/1988

Well Name	Average BOPD	BOPM	Cumulative Oil	Average BMPD	BMPM	Cumulative Water
LANGLIE JAL # 2	0	0	59145	0	0	403988
LANGLIE JAL # 4	6	167	48374	389	11275	1296759
LANGLIE JAL # 6	14	446	142539	25	761	277708
LANGLIE JAL # 8 WIM	0	0	165685	0	0	448228
LANGLIE JAL # 10 WIM	0	0	45898	0	0	348752
LANGLIE JAL # 12	10	297	89485	145	4485	405805
LANGLIE JAL # 14	10	297	41815	229	7088	768707
LANGLIE JAL # 16	5	149	22935	262	8129	825413
LANGLIE JAL # 18 WIM	0	0	89835	0	0	318984
LANGLIE JAL # 20 WIM	0	0	135879	0	0	427214
LANGLIE JAL # 22 WIM	0	0	54754	0	0	140113
LANGLIE JAL # 24 WIM	0	0	77295	0	0	103713
LANGLIE JAL # 26 WIM	0	0	118616	0	0	102654
LANGLIE JAL # 28	4	119	30571	52	1602	127258
LANGLIE JAL # 32	4	119	20826	176	5446	601024
LANGLIE JAL # 34 WIM	0	0	48219	0	0	130994
LANGLIE JAL # 36 WIM	0	0	95990	0	0	159495
LANGLIE JAL # 38 WIM	0	0	72453	0	0	67562
LANGLIE JAL # 40	2	59	203430	32	1001	499500
LANGLIE JAL # 42	3	89	72474	19	601	64565
LANGLIE JAL # 44 WIM	0	0	169949	0	0	452507
LANGLIE JAL # 46 WIM	0	0	155277	0	0	150440
LANGLIE JAL # 48	15	445	107604	567	16445	382440
LANGLIE JAL # 50	6	178	28730	160	4965	492962
LANGLIE JAL # 52	0	0	20187	0	0	313623
LANGLIE JAL # 54	0	0	9453	0	0	217693
LANGLIE JAL # 56	5	149	93799	65	2002	241604
LANGLIE JAL # 58	16	505	165000	218	6767	1021821
LANGLIE JAL # 60 WIM	0	0	169609	0	0	258516
LANGLIE JAL # 62	3	86	154101	141	4224	386377
LANGLIE JAL # 64 WIM	0	0	153284	0	0	247227
LANGLIE JAL # 66	11	306	235871	89	2585	329750
LANGLIE JAL # 68	0	0	3213	0	0	43248
LANGLIE JAL # 70	0	0	551	0	0	18459
LANGLIE JAL # 72 WIM	0	0	92221	0	0	497496
LANGLIE JAL # 74	6	178	126006	143	4445	724803
LANGLIE JAL # 76	0	0	24641	0	0	105135
LANGLIE JAL # 78	11	327	139873	155	4805	715319
LANGLIE JAL # 80	4	119	56165	1	40	9103
LANGLIE JAL # 82	2	59	113785	90	2803	329879
LANGLIE JAL # 84	3	89	84561	152	4725	604771
LANGLIE JAL # 86	6	178	85054	105	3243	224754
LANGLIE JAL # 87	9	147	51061	112	1910	185558
LANGLIE JAL # 88	1	30	17388	1	40	48453
LANGLIE JAL # 90	0	0	18400	0	0	144465
LANGLIE JAL # 91	11	327	84437	36	1121	185233
LANGLIE JAL # 92	0	0	56628	0	0	72279
LANGLIE JAL # 94	5	149	69300	21	641	84602
LANGLIE JAL # 95	7	208	43749	109	3364	233165
LANGLIE JAL # 96	15	445	47954	415	12024	699024
LANGLIE JAL # 97	0	0	3917	0	0	77702
LANGLIE JAL # 98	7	208	22429	37	1161	67368
LANGLIE JAL # 99	0	0	6940	0	0	88740
LANGLIE JAL #100	7	208	57059	163	5045	287393
LANGLIE JAL #101	16	505	31351	740	22942	807331
LANGLIE JAL #102	14	444	36521	440	13454	620785
LANGLIE JAL #103	11	232	20442	749	16482	918565
LANGLIE JAL #104	10	268	42246	68	1917	729720
LANGLIE JAL #105	11	354	41200	109	3364	258049
LANGLIE JAL #106	13	402	50541	477	14299	527694
LANGLIE JAL #107	11	354	35451	142	4405	331328
LANGLIE JAL #108	29	888	53298	147	4565	159129
LANGLIE JAL #109	23	713	20095	146	4525	149173
LANGLIE JAL #110	8	238	35202	240	7448	295400
LANGLIE JAL #111	7	208	14091	169	5246	212648
LANGLIE JAL #112	2	59	3592	89	2763	95612
LANGLIE JAL #301	0	0	17069	0	0	1366795
Totals:	363	10754	4707629	7625	224353	23935180

Langlie Jal Production
by Satellite
PRODUCTION DATA 12/1988

Well Name	Estimated		Actual			Days Prod
	Oil	Gas	Oil	Water	Gas	
SATELLITE 1						
LANGLIE JAL # 40	62	93	59	1001	53	31
LANGLIE JAL # 42	93	124	89	601	71	31
LANGLIE JAL # 48	464	290	445	16445	167	29
LANGLIE JAL # 58	527	372	505	6767	214	31
LANGLIE JAL # 62	90	120	86	4224	69	30
LANGLIE JAL # 66	319	116	306	2585	67	29
LANGLIE JAL # 95	217	155	208	3364	89	31
LANGLIE JAL # 96	464	290	445	12024	167	29
LANGLIE JAL #104	280	420	260	1917	241	28
LANGLIE JAL #105	372	124	356	3364	71	31
LANGLIE JAL #107	372	124	356	4405	71	31
LANGLIE JAL #108	930	155	880	4565	89	31
LANGLIE JAL #109	744	217	713	4525	125	31
LANGLIE JAL #110	248	124	238	7448	71	31
LANGLIE JAL #111	217	124	208	5246	71	31
	5399	2848	5170	78481	1636	
SATELLITE 2						
LANGLIE JAL # 74	186	186	178	4445	117	31
LANGLIE JAL # 78	341	93	327	4805	59	31
LANGLIE JAL # 80	124	93	119	40	59	31
LANGLIE JAL # 82	62	93	59	2803	59	31
LANGLIE JAL # 84	93	124	89	4725	79	31
LANGLIE JAL # 86	186	124	178	3243	79	31
LANGLIE JAL # 87	153	51	147	1910	32	17
LANGLIE JAL # 88	31	62	30	40	39	31
LANGLIE JAL # 91	341	186	327	1121	118	31
LANGLIE JAL # 94	155	124	149	641	79	31
LANGLIE JAL #112	62	93	59	2763	59	31
	1734	1229	1662	26536	779	
SATELLITE 3						
LANGLIE JAL # 14	310	992	297	7088	570	31
LANGLIE JAL # 16	155	2170	149	8129	1244	31
LANGLIE JAL # 28	124	806	119	1602	463	31
LANGLIE JAL # 32	124	930	119	5446	534	31
LANGLIE JAL # 50	186	620	178	4965	356	31
LANGLIE JAL # 56	155	465	149	2002	267	31
	1054	5983	1011	29232	3434	
SATELLITE 4						
LANGLIE JAL # 4	174	580	167	11275	333	29
LANGLIE JAL # 6	445	527	446	761	303	31
LANGLIE JAL # 12	310	434	297	4485	249	31
LANGLIE JAL # 98	217	527	208	1161	303	31
LANGLIE JAL #100	217	434	208	5045	249	31
LANGLIE JAL #101	527	589	505	22942	338	31
LANGLIE JAL #102	465	682	446	13654	392	31
LANGLIE JAL #103	242	374	232	16482	215	22
LANGLIE JAL #106	420	660	402	14299	379	30
	3037	4807	2911	90104	2761	
	11224	14867	10754	224353	8610	

UNION TEXAS PETROLEUM CORPORATION
 LANGLIE JAL UNIT
 INJECTION DATA 12/1989

Well Name	Days Injected	Total Barrels	Average BMPD	Pressure	Total Cumulative
LANGLIE JAL # 1 WIW	31	8897	287	475	1723765
LANGLIE JAL # 3 WIW	31	3517	113	50	2686035
LANGLIE JAL # 5 WIW	31	5411	175	500	1764391
LANGLIE JAL # 7 WIW	31	2	0	520	666318
LANGLIE JAL # 8 WIW	31	15710	507	260	836145
LANGLIE JAL # 9 WIW	31	11363	367	530	1950953
LANGLIE JAL # 10 WIW	31	6493	209	0	579530
LANGLIE JAL # 11 WIW	31	3863	125	210	3146878
LANGLIE JAL # 13 WIW	31	5378	173	490	2396587
LANGLIE JAL # 15 WIW	0	0	0	0	684593
LANGLIE JAL # 17 WIW	31	13257	428	155	1784426
LANGLIE JAL # 18 WIW	31	14069	454	210	865768
LANGLIE JAL # 19 WIW	31	14285	461	530	2574585
LANGLIE JAL # 20 WIW	31	14935	482	470	1097772
LANGLIE JAL # 21 WIW	31	2706	87	530	1378008
LANGLIE JAL # 22 WIW	0	0	0	0	54065
LANGLIE JAL # 23 WIW	31	703	23	580	632451
LANGLIE JAL # 24 WIW	31	2	0	590	192625
LANGLIE JAL # 25 WIW	31	162	5	550	1815557
LANGLIE JAL # 26 WIW	31	9794	316	210	1274251
LANGLIE JAL # 27 WIW	31	9749	314	270	1891562
LANGLIE JAL # 29 WIW	31	14777	477	230	2350266
LANGLIE JAL # 31 WIW	0	0	0	0	793608
LANGLIE JAL # 33 WIW	31	649	21	620	1535719
LANGLIE JAL # 34 WIW	31	11363	367	310	491855
LANGLIE JAL # 35 WIW	31	8874	286	250	2208849
LANGLIE JAL # 36 WIW	31	9578	309	400	842123
LANGLIE JAL # 37 WIW	31	4708	152	410	1624869
LANGLIE JAL # 38 WIW	0	0	0	0	101630
LANGLIE JAL # 39 WIW	31	31	1	600	265025
LANGLIE JAL # 41 WIW	31	5952	192	580	2138791
LANGLIE JAL # 43 WIW	31	7575	244	580	1386214
LANGLIE JAL # 44 WIW	31	2	0	610	543594
LANGLIE JAL # 45 WIW	31	7630	246	590	971546
LANGLIE JAL # 46 WIW	31	19531	630	600	777093
LANGLIE JAL # 47 WIW	31	2	0	490	894119
LANGLIE JAL # 49 WIW	31	2	0	600	1214437
LANGLIE JAL # 51 WIW	31	5411	175	0	1265534
LANGLIE JAL # 53 WIW	31	2435	79	0	1549735
LANGLIE JAL # 55 WIW	31	812	26	620	1419556
LANGLIE JAL # 57 WIW	31	7413	239	530	1634302
LANGLIE JAL # 59 WIW	31	2	0	630	1637769
LANGLIE JAL # 60 WIW	31	6493	209	600	346423
LANGLIE JAL # 61 WIW	31	595	19	560	997374
LANGLIE JAL # 63 WIW	31	873	28	720	594195
LANGLIE JAL # 64 WIW	31	8712	281	600	605435
LANGLIE JAL # 65 WIW	31	2	0	620	1097542
LANGLIE JAL # 67 WIW	31	204	7	600	1762538
LANGLIE JAL # 69 WIW	31	1894	61	80	2044627
LANGLIE JAL # 71 WIW	31	59	2	640	527080
LANGLIE JAL # 72 WIW	31	3842	124	600	488536
LANGLIE JAL # 73 WIW	31	162	5	650	2089777
LANGLIE JAL # 75 WIW	31	2	0	640	1391939
LANGLIE JAL # 77 WIW	31	2	0	600	1007102
LANGLIE JAL # 79 WIW	31	2	0	620	675285
LANGLIE JAL # 81 WIW	31	2	0	580	1858335
LANGLIE JAL # 83 WIW	0	0	0	0	1356966
LANGLIE JAL # 85 WIW	31	487	16	540	2585858
LANGLIE JAL # 89 WIW	31	271	9	650	1345491
LANGLIE JAL # 93 WIW	31	2	0	670	1586142
Totals:		270647			78005544

UNION TEXAS PETROLEUM CORPORATION
 LANGLIE JAL UNIT
 PRODUCTION DATA 12/1989

Well Name	Average BOPD	BOPM	Cumulative Oil	Average BMPD	BMPM	Cumulative Water
LANGLIE JAL # 2	0	0	59145	0	0	403988
LANGLIE JAL # 4	4	138	50562	334	10368	1426744
LANGLIE JAL # 6	12	360	147550	17	515	285550
LANGLIE JAL # 8 WIW	0	0	165685	0	0	448228
LANGLIE JAL # 10 WIW	0	0	45898	0	0	348752
LANGLIE JAL # 12	6	194	92313	138	4291	457722
LANGLIE JAL # 14	7	221	45031	177	5493	839549
LANGLIE JAL # 16	4	111	24070	300	9303	934370
LANGLIE JAL # 18 WIW	0	0	89835	0	0	318986
LANGLIE JAL # 20 WIW	0	0	135879	0	0	427214
LANGLIE JAL # 22 WIW	0	0	54754	0	0	140113
LANGLIE JAL # 24 WIW	0	0	77295	0	0	103713
LANGLIE JAL # 26 WIW	0	0	118616	0	0	102654
LANGLIE JAL # 28	4	111	32094	42	1305	143947
LANGLIE JAL # 32	4	138	22406	167	5184	665242
LANGLIE JAL # 34 WIW	0	0	48219	0	0	130996
LANGLIE JAL # 36 WIW	0	0	95990	0	0	159495
LANGLIE JAL # 38 WIW	0	0	72453	0	0	67562
LANGLIE JAL # 40	3	83	204549	32	996	515121
LANGLIE JAL # 42	3	83	73768	10	309	68801
LANGLIE JAL # 44 WIW	0	0	169949	0	0	452507
LANGLIE JAL # 46 WIW	0	0	155277	0	0	150440
LANGLIE JAL # 48	14	443	111399	313	9715	538774
LANGLIE JAL # 50	5	166	30841	112	3467	537386
LANGLIE JAL # 52	0	0	20187	0	0	313623
LANGLIE JAL # 54	0	0	9453	0	0	217693
LANGLIE JAL # 56	5	166	96152	51	1579	263514
LANGLIE JAL # 58	17	527	171002	189	5870	1101741
LANGLIE JAL # 60 WIW	0	0	169609	0	0	258516
LANGLIE JAL # 62	0	0	154611	0	0	406049
LANGLIE JAL # 64 WIW	0	0	153284	0	0	247227
LANGLIE JAL # 66	8	249	239715	76	2369	365512
LANGLIE JAL # 68	0	0	3213	0	0	43248
LANGLIE JAL # 70	0	0	551	0	0	18459
LANGLIE JAL # 72 WIW	0	0	92221	0	0	497496
LANGLIE JAL # 74	5	166	128072	89	2746	762842
LANGLIE JAL # 76	0	0	24661	0	0	105135
LANGLIE JAL # 78	5	166	142196	89	2746	751333
LANGLIE JAL # 80	4	111	57847	2	69	9846
LANGLIE JAL # 82	2	55	114626	56	1751	352547
LANGLIE JAL # 84	2	55	85761	94	2918	643003
LANGLIE JAL # 86	4	138	86701	34	1064	245444
LANGLIE JAL # 87	4	138	53229	4	137	200733
LANGLIE JAL # 88	0	0	17569	0	0	49198
LANGLIE JAL # 90	0	0	18400	0	0	144465
LANGLIE JAL # 91	6	194	89376	13	412	191344
LANGLIE JAL # 92	0	0	56628	0	0	72279
LANGLIE JAL # 94	6	194	71653	12	378	91640
LANGLIE JAL # 95	4	125	46325	83	2326	268507
LANGLIE JAL # 96	17	526	52448	289	8960	811643
LANGLIE JAL # 97	0	0	3917	0	0	77702
LANGLIE JAL # 98	2	55	23459	27	824	78842
LANGLIE JAL # 99	0	0	6940	0	0	88740
LANGLIE JAL #100	7	214	60042	146	4385	342770
LANGLIE JAL #101	13	375	35878	682	20465	1050930
LANGLIE JAL #102	9	277	40560	491	15208	813180
LANGLIE JAL #103	7	221	23610	669	20735	1168960
LANGLIE JAL #104	13	402	47075	475	14253	912352
LANGLIE JAL #105	6	194	44366	90	2781	295237
LANGLIE JAL #106	12	360	54997	401	12428	662344
LANGLIE JAL #107	13	415	39857	145	4497	386499
LANGLIE JAL #108	13	415	59959	106	3296	203240
LANGLIE JAL #109	14	443	25745	122	3776	193010
LANGLIE JAL #110	8	249	38620	218	6763	374938
LANGLIE JAL #111	5	166	16266	156	4841	270555
LANGLIE JAL #112	2	55	4355	55	1717	119123
LANGLIE JAL #301	0	0	17069	0	0	1366795
Totals:	279	8699	4821783	6506	200240	26506128

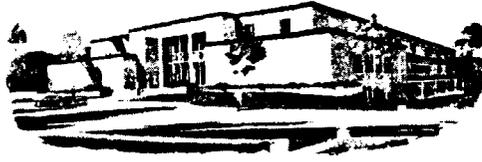
Langlie Jal Production
by Satellite
PRODUCTION DATA 12/1989

Well Name	Estimated		Actual			Days Prod
	Oil	Gas	Oil	Water	Gas	
SATELLITE 1						
LANGLIE JAL # 40	93	403	83	996	288	31
LANGLIE JAL # 42	93	93	83	309	67	31
LANGLIE JAL # 48	496	589	443	9715	421	31
LANGLIE JAL # 58	589	217	527	5870	155	31
LANGLIE JAL # 66	279	155	249	2369	111	31
LANGLIE JAL # 95	140	140	125	2326	100	28
LANGLIE JAL # 96	589	248	526	8960	177	31
LANGLIE JAL #104	450	480	402	14253	343	30
LANGLIE JAL #105	217	124	194	2781	89	31
LANGLIE JAL #107	465	186	415	4497	133	31
LANGLIE JAL #108	465	186	415	3296	133	31
LANGLIE JAL #109	496	155	443	3776	111	31
LANGLIE JAL #110	279	217	249	6763	155	31
LANGLIE JAL #111	186	124	166	4841	89	31
	4837	3317	4320	70752	2372	
SATELLITE 2						
LANGLIE JAL # 74	186	93	166	2746	17	31
LANGLIE JAL # 78	186	186	166	2746	34	31
LANGLIE JAL # 80	124	310	111	69	56	31
LANGLIE JAL # 82	62	341	55	1751	62	31
LANGLIE JAL # 84	62	248	55	2918	45	31
LANGLIE JAL # 86	155	496	138	1064	90	31
LANGLIE JAL # 87	155	124	138	137	23	31
LANGLIE JAL # 91	217	124	194	412	23	31
LANGLIE JAL # 94	217	155	194	378	28	31
LANGLIE JAL #112	62	372	55	1717	68	31
	1426	2449	1272	13938	446	
SATELLITE 3						
LANGLIE JAL # 14	248	651	221	5493	466	31
LANGLIE JAL # 16	124	2728	111	9303	1954	31
LANGLIE JAL # 28	124	837	111	1305	599	31
LANGLIE JAL # 32	155	868	138	5184	621	31
LANGLIE JAL # 50	186	713	166	3467	510	31
LANGLIE JAL # 56	186	899	166	1579	643	31
	1023	6696	913	26331	4793	
SATELLITE 4						
LANGLIE JAL # 4	155	310	138	10368	222	31
LANGLIE JAL # 6	403	403	360	515	288	31
LANGLIE JAL # 12	217	403	194	4291	288	31
LANGLIE JAL # 98	62	465	55	824	333	31
LANGLIE JAL #100	240	360	214	4385	258	30
LANGLIE JAL #101	420	450	375	20465	322	30
LANGLIE JAL #102	310	372	277	15208	266	31
LANGLIE JAL #103	248	465	221	20735	333	31
LANGLIE JAL #106	403	620	360	12428	444	31
	2458	3848	2194	89219	2754	
	9744	16310	8699	200240	10365	

State of New Mexico



W.R. HUMPHRIES
COMMISSIONER



Commissioner of Public Lands

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

November 20, 1990

Union Texas Petroleum
1330 Post Oak Blvd.
P.O. Box 2120
Houston, TX 77252

Attn: Ken E. White

Re: Langlie Jal Unit
Lea County, New Mexico
1990 Plan of Development

Dear Mr. White:

The Commissioner of Public Lands this date approved the 1990 Plan of Development for the Langlie Jal Unit. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development may exist. You will be contacted at a later date regarding these possibilities.

If we may be of further help, please do not hesitate to contact Clyde Langdale at (505) 827-5791.

Sincerely,

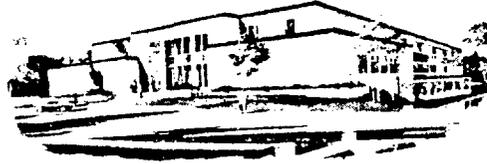
W. R. HUMPHRIES

BY: 
Floyd O. Prando, Director
Oil, Gas & Minerals Division

cc: OCD
Unit Corresp.
Unit POD

#4429

State of New Mexico



Commissioner of Public Lands

JIM BACA
COMMISSIONER

May 8, 1985

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery User
210 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Allied Union Texas Petroleum
4000 North Big Spring, Suite 500
Midland, Texas 79705

Re: 1985 Plan, of Development
Langlie-Jal Unit
Lea County, New Mexico

ATTENTION: Mr. M. R. LaMonica

Gentlemen:

The Commissioner of Public Lands has this date approved your 1985 Plan of Development for the Langlie-Jal Unit Area, Lea County, New Mexico. Such plan proposes to drill 6 more infill wells in the 2nd half of 1985, Drill 10 wells in the first half of 1986 and convert offset producers to injection. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

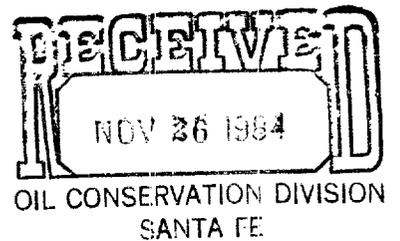
Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Assistant Director
Oil and Gas Division
AC 505/827-5744

JB/FCP/pm
encls.
cc:

OCD-Santa Fe, New Mexico
BLM-Albuquerque, New Mexico Attn: Fluids Branch
BLM-Roswell, New Mexico Attn: Mr. Armando Lopez



#4429

14-08-0001-11587

November 23, 1984

Union Texas Petroleum
Attn: V.R. Temple
Southwest Division
4000 North Big Spring
Suite 500
Midland, TX 79705

RE: 1984 Plan of Development -
Langlie-Jal Unit Secondary
Recovery Expansion, Lea
County, New Mexico

Gentlemen:

We are in receipt of your letter dated November 16, 1984 which reviews Langlie-Jal Unit Infill Well performance for 1982 through 1984 together with your Plan of Development for 1984.

Your proposal to drill infill wells No. 101 through 107 together with an appropriate number of injection wells is hereby approved on this date.

We appreciate the detailed Summary of Operations prepared by Mr. LaMonica and suggest that this type of information, calculations, and format be used for all future yearly Plans of Development.

Please be advised that all information submitted to us is considered to be of a proprietary nature and is kept strictly confidential by our office.

Sincerely yours,

District Manager

Associate

cc: Commissioner of Public Lands, Santa Fe
✓ NMOCD, Santa Fe
NMSO, Micrographics (943B)
Mr. LaMonica
c/o Union Texas Petroleum
CRA - BobPitschke
POD File



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Box 1397, Roswell, New Mexico • 88201

14-08-0001-11587

October 26, 1984

Union Texas Petroleum Division
Allied Chemical Corporation
P.O. Box 2120
Houston, TX 77001

OIL CONTROL UNIT
24317

RE: Langlie - Jal Unit, Lea
County, New Mexico, Plan of
Development and Operation

Gentlemen:

The Langlie - Jal Unit Secondary Recovery Agreement was signed and effective as of December 10, 1969. According to our records the last plan of development and operation filed with our office was for the year 1971 with a subsequent revision dated April 20, 1972.

Section 11. of the Unit Agreement states:

"After commencement of secondary operations, unit operator shall furnish the Commission, Land Commissioner, and the Supervisor with monthly injection and production reports for each unit well. The unit operator shall also furnish the working interest owners, Commission, Land Commissioner, and the Supervisor with periodic reports on the progress of the plan of operation and any revisions or changes there to;..."

"...Thereafter, from time to time before the expiration of any existing plan, the unit operator shall submit for like approval a plan for an additional specified period of operation."

In view of the above we require a plan of development and operation for the years 1984-85 to include the number and locations of any infill or injection wells to be drilled and/or conversions and the proposed time of such drilling; and a summary of operations and production for the previous year. The drilling of all wells, whether infill or injection, together with conversions must be approved by the authorizing officer in accordance with an approved plan of development and operation before drilling is commenced.

For any infill well drilling during 1984-85 and for subsequent years, we will need the following information to make an evaluation: cost to drill and complete, revised economic waterflood life estimate in view of proposed drilling, operating expenses per month, oil production to date, calculation of original and remaining oil in place and recoverable reserves due to proposed drilling, estimates of anticipated production increase, sweep efficiency, and decline rates based on past history together with current

production rates. We will also need an updated to present cumulative production vs. time graph for the Langlie - Jal Unit Secondary Recovery Project and any other information you feel would help us in an evaluation.

Please be advised that all information submitted to us is considered to be of a proprietary nature and is kept in the strictest of confidence.

In subsequent plans of development, please provide statistical data and/or decline curves on production.

Sincerely yours,

[Orig. Sgd.' Earl R. Cunningham]

District Manager

cc: Commissioner of Public Lands, Santa Fe
NMOCD, Santa Fe

RECEIVED
FEB 01 1981
OIL CONSERVATION DIVISION
SANTA FE



1029

Getty Oil Company

Central Exploration and Production Division
P.O. Box 730
Hobbs, New Mexico 88240

January 29, 1981
File: South Langlie Jal Unit
Lea County, New Mexico

Oil Conservation Division (3)
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

Gentlemen:

Getty Oil Company respectfully submits for your approval a report of past operations and a plan of development for the year 1981 on the South Langlie Jal Unit.

Past Operations

The South Langlie Jal Unit became effective September 1, 1970, incorporating 1080 acres and 27 wells. The subject unit commingles production from the Seven Rivers and Queen. Water injection was initiated April 18, 1971. As of December 31, 1980, there were 13 injectors and 15 producers in the unit.

Cumulative oil production since unitization was 992,424 barrels on January 1, 1981. The average producing rate during December, 1980 was 1.79 barrels of oil.

Cumulative water injection into the unit was 18,427,269 barrels on January 1, 1981. The average daily injection rate during December, 1980 was 6,461 barrels at 648 psig.

The unit was operated by Reserve Oil and Gas Company from the date of unitization until this past year when Reserve Oil and Gas Company was merged into Getty Oil Company.

Development Plans for 1981

Plans for the unit are to perform remedial and stimulation workovers on wells as they are warranted for efficient oil recovery.

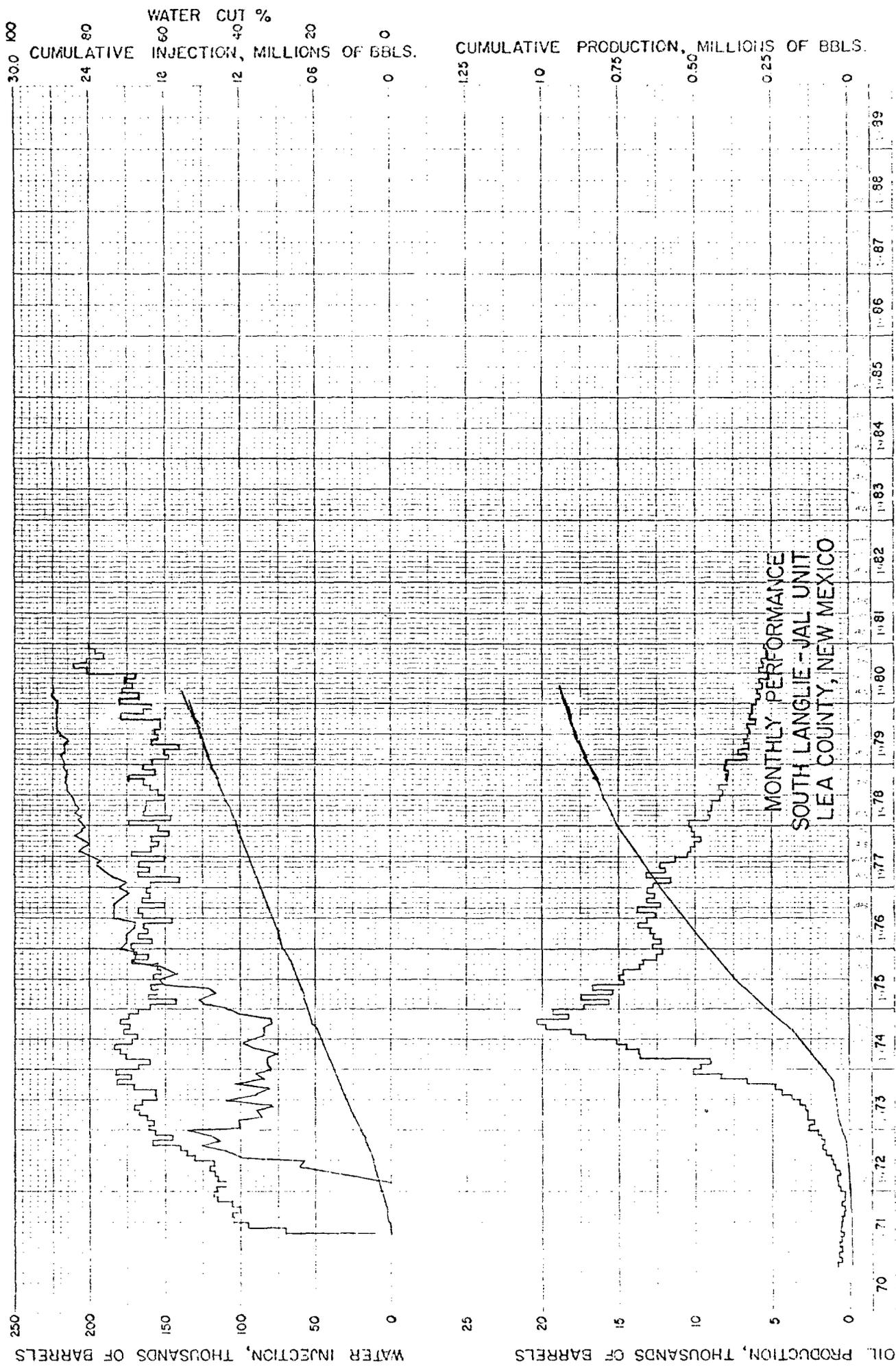
Yours very truly,

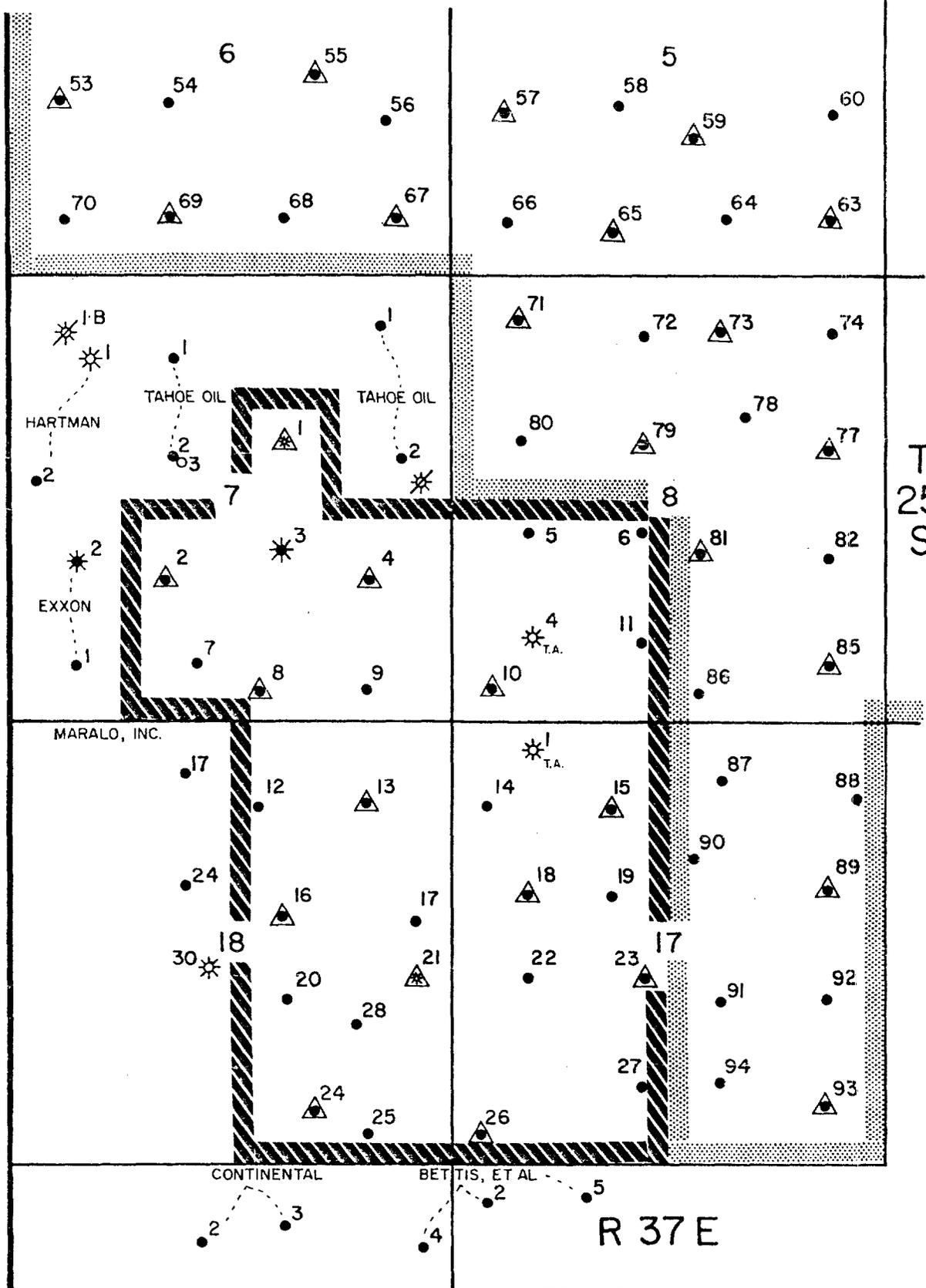
GETTY OIL COMPANY

Dale R. Crockett
Hobbs Area Superintendent

JDM/ly

Attachments





T
25
S

R 37 E

- ☼ PRODUCING GAS WELL
- PRODUCING OIL WELL
- ▲ INJECTION WELL
- ▨ LANGLEIE JAL UNIT BOUNDARY
- ▩ SO. LANGLEIE JAL UNIT BOUNDARY

RESERVE OIL, INC.
SOUTH LANGLEIE JAL UNIT
LEA COUNTY, NEW MEXICO

SCALE 1" = 1,000'

DRAWN BY	K.D.H.	REVISED BY
DATE	3-15-79	DATE

4429



1981

Oil Conservation Division
Getty Oil Company

Oil Conservation Division
P.O. Box 700
Hobbs, New Mexico 88240

January 29, 1981
File: South Langlie Jal Unit
Lea County, New Mexico

Oil Conservation Division (3)
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

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Cumulative oil production since unitization was 992,424 barrels on January 1, 1981. The average producing rate during December, 1980 was 179 barrels of oil.

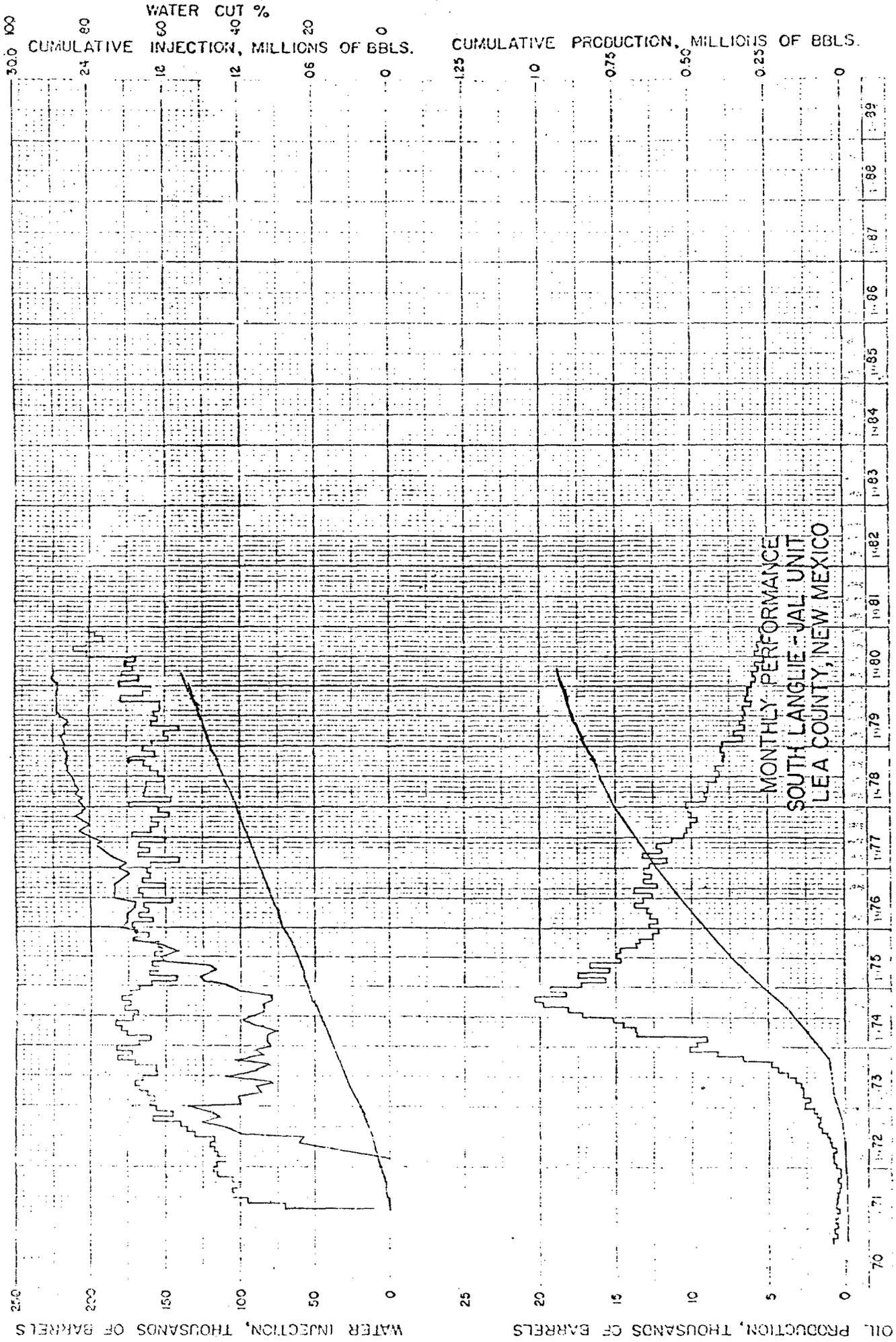
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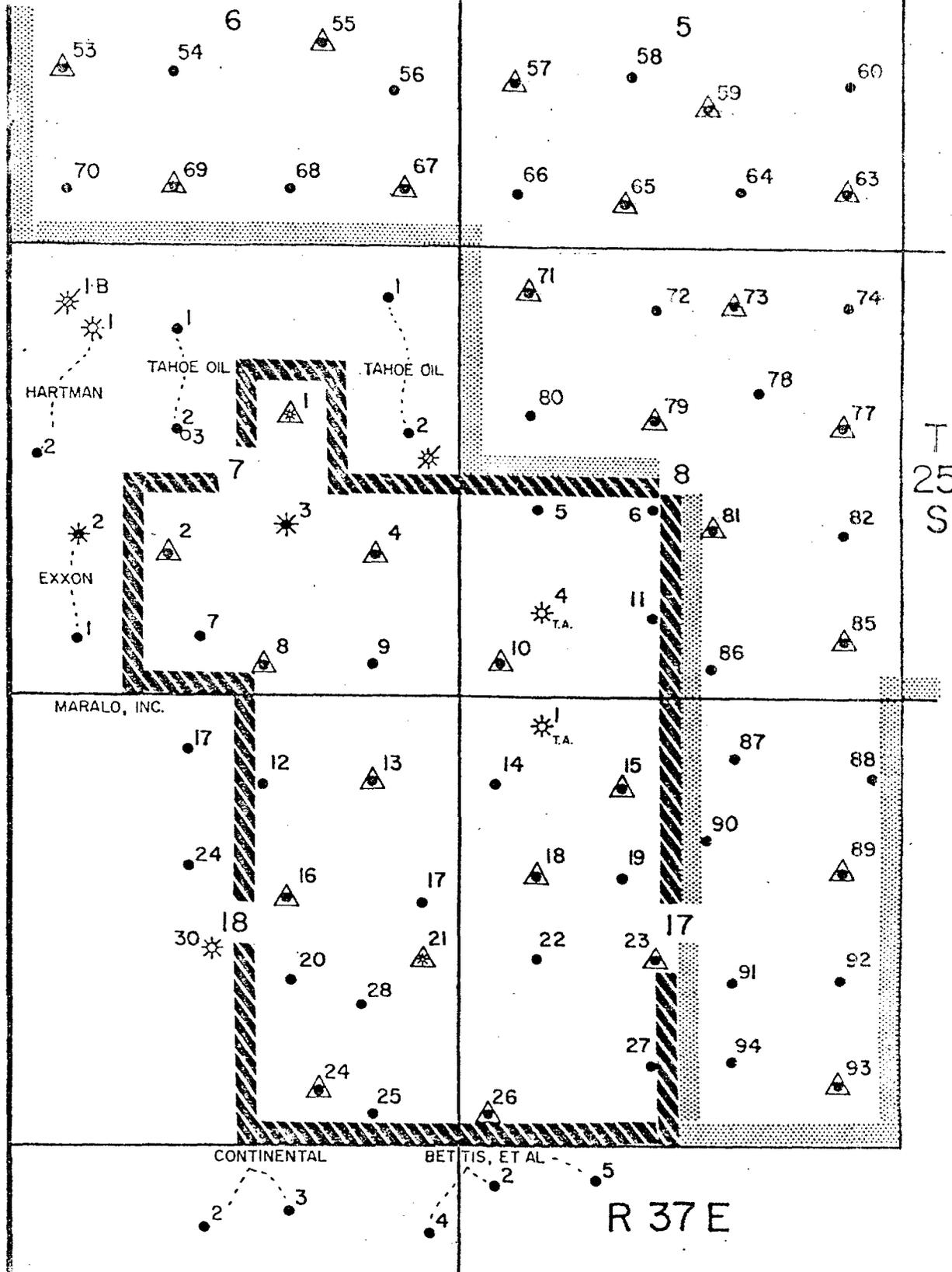
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Development Plans for 1981

Plans for the unit are to perform remedial and stimulation workovers on wells as they are warranted for efficient oil recovery.

Yours very truly,
GETTY OIL COMPANY
Dale R. Crockett
Dale R. Crockett
Hobbs Area Superintendent





- ☼ PRODUCING GAS WELL
- PRODUCING OIL WELL
- ▲ INJECTION WELL
- LANGLEIE JAL UNIT BOUNDARY
- ▨ SO. LANGLEIE JAL UNIT BOUNDARY

RESERVE OIL, INC.
SOUTH LANGLEIE JAL UNIT
LEA COUNTY, NEW MEXICO

SCALE 1" = 1,000'

DRAWN BY	K.D.H.	REVISED BY
DATE	3-15-79	DATE



4429

Getty Oil Company

P.O. Box 750
Hobbs, New Mexico 88240

January 29, 1981
File: South Langlie Jal Unit
Lea County, New Mexico

Oil Conservation Division (3)
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

Commissioner of Public Lands (3)
The State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico 87501

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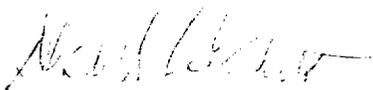
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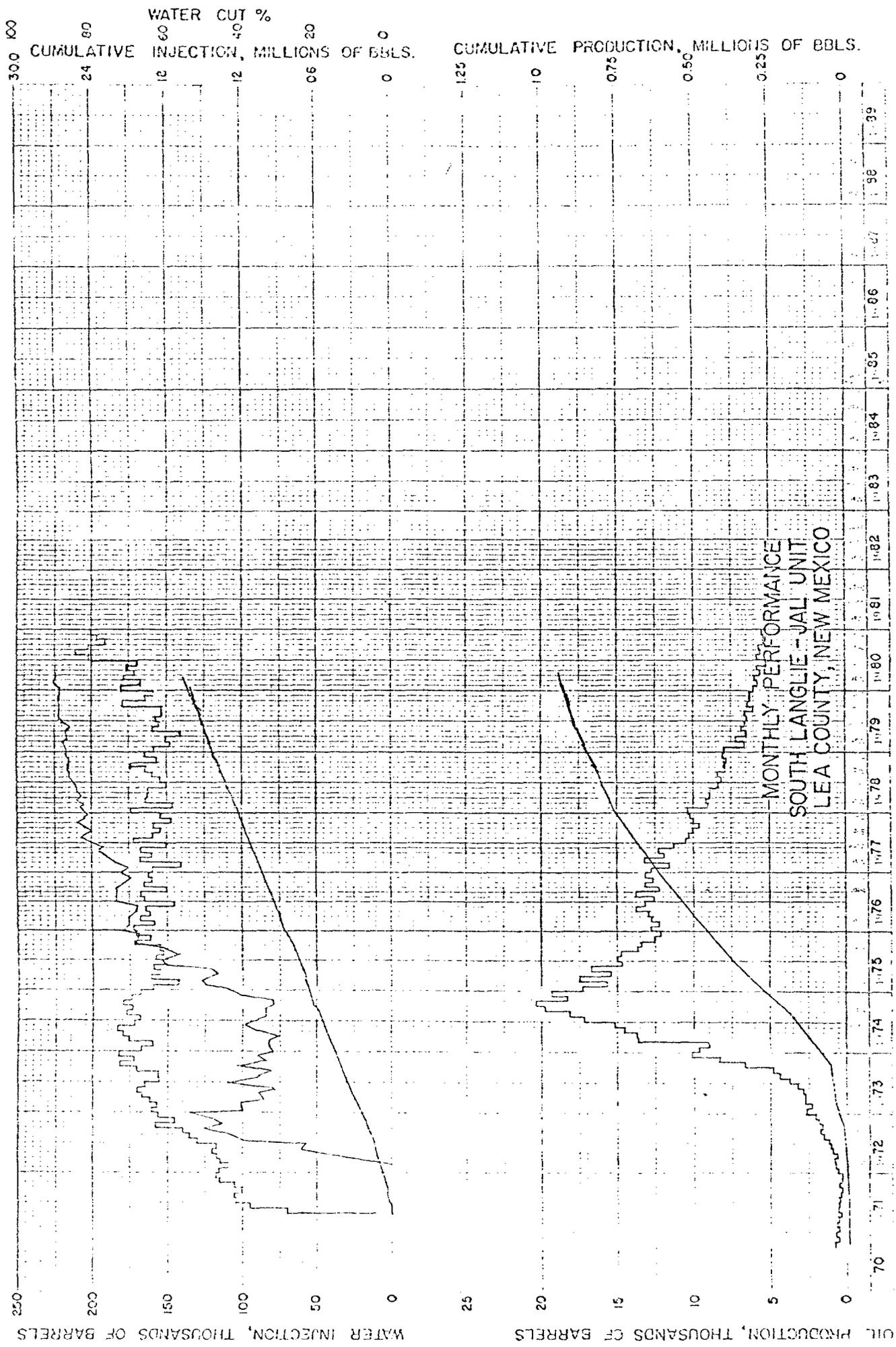
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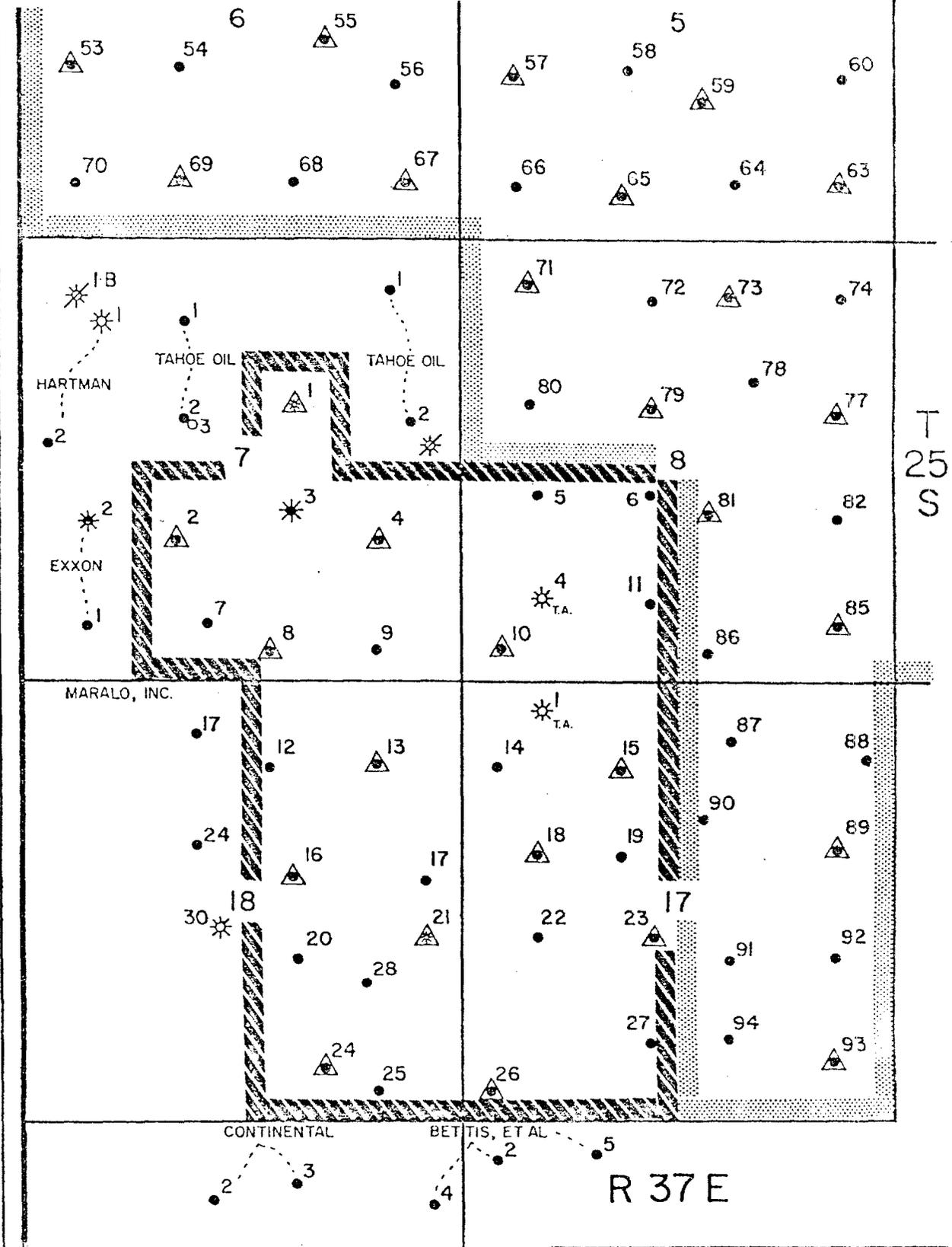
Development Plans for 1981

Plans for the unit are to perform remedial and stimulation workovers on wells as they are warranted for efficient oil recovery.

Yours very truly,
GETTY OIL COMPANY


Dale R. Crockett
Hobbs Area Superintendent





- ☀ PRODUCING GAS WELL
- PRODUCING OIL WELL
- ▲ INJECTION WELL
- LANGLIE JAL UNIT BOUNDARY
- ▨ SO. LANGLIE JAL UNIT BOUNDARY

RESERVE OIL, INC.
SOUTH LANGLIE JAL UNIT
LEA COUNTY, NEW MEXICO

SCALE 1" = 1,000'

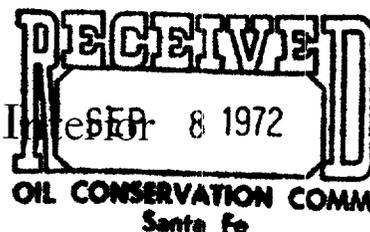
DRAWN BY	K J H	REVISED BY
DATE	3-15-79	DATE



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



44-1
September 5, 1972

Allied Chemical Corporation
Union Texas Petroleum Division
P. O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

Your letter of August 30, 1972, transmits two original and three copies each of two joinders to the Langlie Jal unit agreement No. 14-08-0001-11587, Lea County, New Mexico. Such joinders are executed by Mr. Judd Moore and by Gladys Flincham, Administratrix of the Estate of Odella N. Spears Nee Odella N. Clark, basic royalty owners under fee tract 25. Tract 25 was qualified for participation as of the effective date of the unit agreement. Also, transmitted with the joinders is Skelly Oil Company's consent, as working interest owner of fee tract 25, to the commitment of subject basic royalty interests to the unit agreement pursuant to Section 31 thereof.

The consent and joinders cited above were received in this office on September 1, 1972, and are accepted for record purposes effective October 1, 1972. Copies of such joinders are being distributed to the appropriate Federal offices and one copy is returned herewith.

Sincerely yours,

(ORIG. SGD.) N. O. FREDERICK

N. O. FREDERICK
Area Oil and Gas Supervisor

cc:
Washington (w/cy joinder)
BIM, Santa Fe (w/cy joinder)
Hobbs (w/cy joinder)
NMOCC, Santa Fe (ltr. only) ✓
Com. Public Lands, Santa Fe (ltr. only)
Accounts (ltr. only)

JAGillham:lh



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

MAR 14 1972

CONSERVATION COMM.
SANTA FE

Drawer 1857
Roswell, New Mexico 88201

March 9, 1972

Allied Chemical Corporation
Union Texas Petroleum Division
P. O. Box 2120
Houston, Texas 77001

4429

Attention: Mr. James L. Mackey

Gentlemen:

Receipt of the following instruments relative to the commitment of interests to the Langlie Jal unit agreement, No. 14-08-0001-11587, Lea County, New Mexico, is hereby acknowledged.

1. One copy of your transmittal letter of February 24, 1972, which contains your consent as unit operator and states that working interest owners having a combined unit participation in excess of 80 percent have approved the subsequent joinder of tract No. 19 on the basis of participation provided by the unit agreement pursuant to Section 31 thereof.
2. Two duplicate originals and three copies of the joinder to the unit agreement and unit operating agreement executed on February 11, 1972, by Continental Oil Company as lessee of record and sole working interest owner under State of New Mexico tract No. 19.

The consent and joinder listed above were received in this office on February 28, 1972, and are accepted for record purposes effective March 1, 1972. Copies of the joinder are being distributed to the appropriate Federal offices and one copy is returned herewith. The Commissioner of Public Lands of the State of New Mexico has previously approved this joinder. Please provide this office three copies of revised Exhibit C showing an effective date of March 1, 1972.

Sincerely yours,

cc:
Washington (w/cy joinder)
BLM, Santa Fe (w/cy joinder)
Hobbs (w/cy joinder)
NMOCC, Santa Fe (ltr. only) ✓
Com. Pub. Lands, Santa Fe
(ltr. only)
Accounts (ltr. only)

(ORIG. SGD.) N. O. FREDERICK

N. O. FREDERICK
Regional Oil and Gas Supervisor

Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

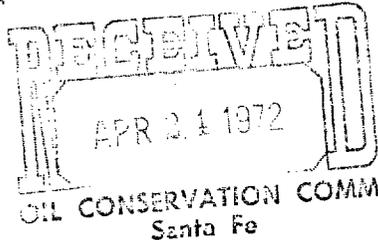
P. O. Box 2120, Houston, Texas 77001

(713) 529-3271

April 20, 1972

44-1

United States Department of Interior
Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201
Attn: Mr. Jack Willock



Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501
Attn: Mr. Gordon G. Marcum

State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. Dan Nutter

Re: Langlie Jal Unit
Lea County, New Mexico

Gentlemen:

This is to advise that, as a result of the signing of a cooperative waterflood agreement between the Langlie-Jal Unit, operated by Union Texas Petroleum, and the South Langlie-Jal Unit, operated by Reserve Oil and Gas Company, copies of which have previously been furnished to you, changes in the Plan of Operation will be made as follows:

Well No. 87 - Tract No. 2 - Location B17-25-37 -- will not be converted to an injection well. At the present time this well will remain idle.

Well No. 9 - Tract No. 8 - Location J17-25-37 -- will not be drilled as an injection well.

Yours very truly,

James L. Mackey
James L. Mackey

JLM:mjg
cc: Don Wells

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 20, 1972

4429

Allied Chemical Corporation
P. O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Re: Langlie-Jal Unit
Lea County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has no objection to the inclusion of Tract No. 19 as a participating tract in the Langlie-Jal Unit. The Commission also approves March 1, 1972 as the effective date of the inclusion subject to like approval by the Commissioner of Public Lands and the United States Geological Survey.

One signed copy of the letter dated February 24, 1972, is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell
Commissioner of Public Lands - Santa Fe

C
O
P
Y

Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

P. O. Box 2120, Houston, Texas 77001

(713) 529-3271

February 24, 1972

United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201
Attn: Mr. Jack Willock

State of New Mexico
Commissioner of Public Lands
P. O. Box 1148
Santa Fe, New Mexico 87501
Attn: Mr. Gordon G. Marcum

State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Mr. Dan Nutter

RECEIVED

FEB 28 1972

**CONSERVATION COMM.
SANTA FE**

Re: Langlie-Jal Unit
Lea County, New Mexico

Gentlemen:

Continental Oil Company has executed a ratification form ratifying the Unit Agreement and Unit Operating Agreement for admitting Tract No. 19, NW/4 SE/4 Sec. 32, T-24-S, R-37-E, to participation in the Langlie Jal Unit. This tract is to come into the unit under the original participation formulae with the tract having a participation of .02496713 as set forth in original Exhibit "C" to the Unit Agreement and original Exhibits "D" and "D" Summary to the Unit Operating Agreement. All of the basic royalty under Tract No. 19 is owned by the State of New Mexico and no overriding royalty interest exist.

The original exhibits to the Unit Agreement and Unit Operating Agreement will become applicable with the inclusion of Tract No. 19 in the participating area of the unit.

It is proposed that the effective date of the inclusion of Tract No. 19 in the Langlie-Jal Unit be March 1, 1972.

Enclosed herewith for the United States Geological Survey are two originals and three copies, for the Commissioner of Public Lands, State of New Mexico one original and one copy, and for the Oil Conservation Commissioner one copy of the ratification form executed by Continental Oil Company.

Approval of 87.54339% of the Working Interest Owners in the Langlie-Jal Unit has been received for including Tract No. 19 as a participant in the Unit. Section 31 of the Unit Agreement provides that subsequent joinder of a tract in the Unit after the effective date of the Unit must be approved by 80% of the Working Interest Owners, therefore, this condition has been met.

If you have no objection to the inclusion of Tract No. 19 as a participating tract in the Langlie-Jal Unit, and are in agreement with the effective date of March 1, 1972, for this to occur, it is requested that you indicate your approval by signing in the space provided below.

Yours very truly,

James L. Mackey
James L. Mackey

APPROVED:

BY:

A. L. Porter

DATE:

March 19, 1972

RECEIVED
MAR 1 1972
U.S. GEOLOGICAL SURVEY

March 1, 1972

Allied Chemical Corporation
P. O. Box 2120
Houston, Texas 77001

Re: Langlie-Jal Unit
Lea County, New Mexico

ATTENTION: Mr. James L. Mackey

Gentlemen:

This will acknowledge your letter of February 24, 1972, whereby you submitted one original and one copy of a ratification executed by Continental Oil Company admitting Tract No. 19, to the Langlie-Jal Unit and Operating Agreements. Tract No. 19 is covered by the NW/4SE/4 of Section 32, Township 24 South, Range 37 East.

This Subsequent Joinder has been approved by the Commissioner of Public Lands as of this date, subject to like approval by the United States Geological Survey.

Please advise this office when the U. S. G. S. approves establishing the effective date of the commitment of Tract 19 to the Langlie-Jal Unit Agreement and Operating Agreement.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encl.

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓



Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

P. O. Box 2120, Houston, Texas 77001

March 14, 1972

(713) 529-3271

RECEIVED
MAR 17 1972
CONSERVATION COMM.
SANTA FE

State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attn: Mr. Dan Nutter

Re: Langlie Jal Unit
Lea County, New Mexico

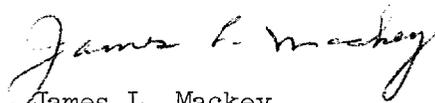
Gentlemen:

Enclosed herewith are copies of the letters of approval for the inclusion of Tract No. 19, operated by Continental Oil Company, in the Langlie Jal Unit from the New Mexico Land Commissioner and the U.S.G.S.

Also included is a copy of revised Exhibit "C" to the Unit Agreement effective March 1, 1972. This is the same as the original Exhibit "C" included in the Unit Agreement.

We assumed that you have no objection to the inclusion of Tract No. 19 in the Unit and the effective date of March 1, 1972; however, we have not yet received your approval.

Yours very truly,


James L. Mackey

JLM:mjg
Enclosures

United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

RECEIVED
MAR 17 1972

CONSERVATION COMM:
-ANTA PE

March 9, 1972

Allied Chemical Corporation
Union Texas Petroleum Division
P. O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

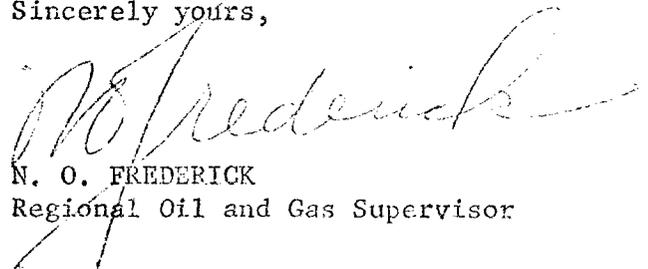
Gentlemen:

Receipt of the following instruments relative to the commitment of interests to the Langlie Jal unit agreement, No. 14-09-0001-11997, Lea County, New Mexico, is hereby acknowledged.

1. One copy of your transmittal letter of February 24, 1972, which contains your consent as unit operator and states that working interest owners having a combined unit participation in excess of 80 percent have approved the subsequent joinder of tract No. 19 on the basis of participation provided by the unit agreement pursuant to Section 31 thereof.
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Sincerely yours,



N. O. FREDERICK
Regional Oil and Gas Supervisor

State of New Mexico

Commissioner of Public Lands

March 1, 1972

P. O. BOX 1143
SANTA FE, NEW MEXICO

ALEX J. ARMIJO
COMMISSIONER

Allied Chemical Corporation
P. O. Box 2152
Houston, Texas 77001

Re: Langlie-Jal Unit
Lea County, New Mexico

ATTENTION: Mr. James L. Mackey

Gentlemen:

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This Subsequent Joinder has been approved by the Commissioner of Public Lands as of this date, subject to like approval by the United States Geological Survey.

Please advise this office when the U. S. G. S. approves establishing the effective date of the commitment of Tract 19 to the Langlie-Jal Unit Agreement and Operating Agreement.

Very truly yours,

Ray D. Graham
RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDS/c
encl.

cc: USGS--Roswell, New Mexico
OCC- Santa Fe, New Mexico

EXHIBIT C - UNIT AGREEMENT
 LANGLIE-JAL UNIT
 LEA COUNTY, NEW MEXICO
 T-24-S; T-25-S, R-37-E

Effective March 1, 1972

<u>TRACT NO.</u>	<u>DESCRIPTION OF LAND</u>	<u>TRACT PARTICIPATION</u>
1	<u>T-25-S, R-37-E</u> Sec. 9: W/2 SW/4	2.915061
2	Sec. 17: NW/4 NE/4 SE/4 NE/4	2.328840
3	Sec. 9: SW/4 NW/4	0.160083
3-A	Sec. 8: S/2 NE/4, SE/4	9.974474
4	<u>T-24-S, R-37-E</u> Sec. 31: Lots 3 and 4	1.839708
5	<u>T-25-S, R-37-E</u> Sec. 4: Lot 4, SW/4 NW/4 Sec. 5: Lot 1, SE/4 NE/4 Sec. 6: Lot 1	4.794379
6	Sec. 4: Lot 2, 3 SW/4 NE/4, NW/4 SW/4 Sec. 5: Lots 2, 3, 4 SW/4 NW/4, NW/4 SW/4, S/2 SE/4, SE/4 SW/4	16.642138
6-A	Sec. 5: SE/4 NW/4, SW/4 NE/4, NE/4 SW/4, N/2 SE/4, SW/4 SW/4	4.886555
6-B	Sec. 6: SE/4 NW/4, NE/4 SW/4, NW/4 SE/4	2.648351
6-C	Sec. 6: SW/4 NE/4	0.196845
6-D	Sec. 6: Lot 4	1.166039
7	Sec. 17: NE/4 NE/4, SW/4 NE/4	1.670667
8	Sec. 17: N/2 SE/4	1.172666
8-A	Sec. 17: S/2 SE/4	1.892927
9	Sec. 4: SE/4 NW/4, SW/4 SW/4	0.320166
10	Sec. 8: NE/4 NE/4	1.352073
10-A	Sec. 8: NW/4 NE/4	2.205778
11	Sec. 9: NW/4 NW/4	1.250747
12	<u>T-24-S, R-37-E</u> Sec. 32: NE/4 NW/4	0.212801
13	Sec. 32: S/2 NW/4, NW/4 NW/4	3.635710
14	Sec. 32: NE/4 NE/4	1.165992
14-A	Sec. 32: SE/4 NE/4, NE/4 SE/4	0.993662

Effective March 1, 1972

<u>TRACT NO.</u>	<u>DESCRIPTION OF LAND</u>	<u>TRACT AREA</u>
15	Sec. 32: N/2 SW/4, SW/4 SW/4	4.732992
16	Sec. 32: W/2 NE/4	2.097752
17	Sec. 32: S/2 SE/4	1.239017
18	Sec. 32: SE/4 SW/4	1.330340
19	Sec. 32: NW/4 SE/4	2.496713
	<u>T-25-S, R-37-E</u>	
20	Sec. 6: Lots 5 and 6	2.412891
20-A	Sec. 6: SE/4 SW/4	0.701828
20-B	Sec. 6: S/2 SE/4	1.440444
21	Sec. 6: Lot 7	0.419999
21-A	Sec. 6: SE/4 NE/4, NE/4 SE/4	2.382879
22	Sec. 8: NW/4	3.427777
	<u>T-24-S, R-37-E</u>	
23	Sec. 31: NE/4	3.876041
24	Sec. 31: Lot 2, SE/4 NW/4	1.895688
25	Sec. 31: SE/4, E/2 SW/4	
	<u>T-25-S, R-37-E</u>	
	Sec. 6: Lots 2 and 3	<u>8.116977</u>
	TOTAL	100.000000

RATIFICATION OF AGREEMENTS ENTITLED
"UNIT AGREEMENT" AND " UNIT OPERATING AGREEMENT"
LANGLIE-JAL UNIT
LEA COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the undersigned owner (whether one or more) of Royalty, Overriding Royalty or Production Payment interest hereby acknowledges receipt of a true copy of the "Unit Agreement, Langlie-Jal Unit, Lea County, New Mexico", dated December 10, 1969, providing for the development and operation of 3748.06 acres, more or less, in Townships 24 and 25 South, Range 37 East, N.M.P.M., Lea County, hereinafter referred to as the Unit Agreement, and the undersigned owner (whether one or more) of working interests hereby acknowledges receipt of a true copy of said Unit Agreement and a true copy of the "Unit Operating Agreement, Langlie-Jal Unit, Lea County, New Mexico", dated December 10, 1969, hereinafter referred to as the Unit Operating Agreement; and

WHEREAS, Exhibits "A" and "B" attached to said Unit Agreement identify the Tracts which may become a part of the Langlie-Jal Unit as initially constituted, depending upon whether such Tracts qualify for inclusion therein, as provided in said Agreement; and

WHEREAS, said Unit Agreement and Unit Operating Agreement each provide for counterpart execution and for ratification by other instrument agreeing to be bound by the provisions of said Agreements; and

WHEREAS, the undersigned represents that it is a Royalty, Overriding Royalty, Production Payment, Working Interest Owner, or any combination, as defined in said Unit Agreement, in one or more of the Tracts identified by said exhibits.

NOW, THEREFORE, the undersigned owner of Royalty, Overriding Royalty or Production Payment Interests desires to and does hereby ratify and confirm said Unit Agreement, and the undersigned owner of Working Interests only, or the owner of both Working Interests and any of the other said interests desires to and does hereby ratify and confirm said Unit Agreement and said Unit Operating Agreement, with respect to all of its right, title and interest in all of the Tracts identified by said exhibits.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth below opposite its signature.

WITNESSES
S. W. [unclear]
M. W. [unclear]

DATE: February 11, 1972 CONTINENTAL OIL COMPANY

WITNESS: _____ P. O. Box 2197

WITNESS: _____ Houston, Texas 77001

By: [Signature]
V. C. Eissler

Its: Attorney-in-Fact

STATE OF _____

PARISH/COUNTY OF _____

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

NOTARY PUBLIC

STATE OF TEXAS

~~PARISH/COUNTY OF~~ HARRIS

On this 11th day of February, 1972, before me appeared V. C. Eissler, who, duly sworn, did say that he is the Attorney-in-Fact of CONTINENTAL OIL COMPANY by authority of its Board of Director, and said V. C. Eissler acknowledged said instrument to be the free act and deed of said corporation.

PATRICIA HORNSBY
Notary Public in and for Harris County, Texas
My Commission Expires June 1, 1973

[Signature]
NOTARY PUBLIC



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

RECEIVED

OCT - 7 1971

OIL CONSERVATION COMM.
SANTA FE

October 6, 1971

Union Texas Petroleum Division
Allied Chemical Corporation
P.O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

The cooperative waterflood agreement between Union Texas Petroleum as operator of the Langlie Jal unit and Reserve Oil and Gas as operator of the South Langlie Jal unit has been approved on this date subject to like approval by the New Mexico Oil Conservation Commission and the Commissioner of Public Lands of the State of New Mexico. Such agreement provides for cooperative waterflooding along the common boundary between the two units involving secs. 8 and 17, T. 25 S., R. 37 E., N.M.P.M., Lea County, New Mexico.

One approved copy of the agreement is enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:
NMOCC, Santa Fe ✓
Com. Pub. Lands, Santa Fe
Hobbs

Drawer 1857
Roswell, New Mexico 88201

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 06-29-2009 BY 60322 UCBAW

June 24, 1971

Union Texas Petroleum
P. O. Box 2120
Houston, Texas 77001

4429

Attention: Mr. James L. Mackey

Gentlemen:

Your letter of May 4 transmitted three original and two Xerox copies of a joinder to the Langlie Jal unit agreement, No. 14-08-0001-11587, Lea County, New Mexico, executed on April 7, 1971, by Douglas O. Williams, as owner of the following interests:

<u>Tract</u>	<u>Overriding Royalty Interest, Percent</u>
6	0.01785
6-A	0.01786
6-B	0.01786
6-C	0.01785
6-D	0.01786

By letters of April 20, May 4, May 24, and June 4, 1971, Texas Pacific Oil Company, Union Texas Petroleum, Rosley Corporation, and Union Oil Company of California, working interest owners of the above Federal tracts, accepted the joinder pursuant to Section 31 of the unit agreement.

The above-described joinder was filed with this office on May 6, 1971, and is accepted for record purposes. Copies of the joinder are being distributed to the Federal agencies involved.

Sincerely yours,

(ORIG. SCD.) N. O. FREDERICK

cc:
Washington (w/cy joinder)
Hobbs (w/cy joinder)
BLM, Santa Fe (w/cy joinder)
NMOCC, Santa Fe (ltr. only) ✓
Com. Pub. Lands, Santa Fe (ltr. only)
Accounting

N. O. FREDERICK
Regional Oil and Gas Supervisor



Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

P. O. Box 2120, Houston, Texas 77001

(713) 529-3271

August 9, 1971

Handwritten scribbles

Handwritten scribbles

State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Dan Nutter

Re: Langlie-Jal Unit
Lea County, New Mexico

Dear Mr. Nutter:

In accordance with Section 38 of the Unit Agreement for the Langlie-Jal Unit, we are enclosing a copy of a proposed Cooperative Waterflood Agreement between the Langlie-Jal Unit operated by Union Texas Petroleum and the South Langlie-Jal Unit operated by Reserve Oil and Gas for your approval, prior to execution by Union Texas Petroleum and Reserve Oil and Gas.

If you have no objection to the execution of the proposed agreement, it is requested that you indicate your approval by signing in the space provided below and returning one copy of the letter to us.

James L. Mackey

JLM:pz
Enclosure

Approved N.M. OIL CONSERVATION COMMISSION
By [Signature]
Date 02/12/71



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

RECEIVED

SEP 17 1971

September 15, 1971

OIL CONSERVATION COMM.
SANTA FE

Union Texas Petroleum Division
Allied Chemical Corporation
P.O. Box 2120
Houston, Texas 77001

4421

Attention: Mr. James L. Mackey

Gentlemen:

Your letter of August 9 transmits two original and three xerox copies of a joinder to the Langlie Jai unit agreement No. 14-08-0001-11527, Lea County, New Mexico, executed by Wanda Archer, basic royalty owner under fee tracts 23 and 24. Such tracts were qualified for participation as of the effective date of the unit agreement. Your letter of September 3 transmits Reserve Oil and Gas Company's consent, as working interest owner for fee tracts 23 and 24 to the commitment of the basic royalty interest to the unit agreement.

Copies of the ratification and joinder, effective October 1, 1971, are being distributed to the appropriate Federal offices.

Sincerely yours,

N. O. FREDERICK

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington (w/cy joinder)
Hobbs (w/cy joinder)
BLM, Santa Fe (w/cy joinder)
NMOCC, Santa Fe (ltr. only) ✓
Com. Pub. Lands, Santa Fe (ltr. only)
Accounts (ltr. only)



UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

RECEIVED

SEP 17 1971

OIL CONSERVATION COMM.
SANTA FE

September 15, 1971

44-1

Union Texas Petroleum Division
Allied Chemical Corporation
P.O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

Your letter of August 9 transmits a proposed border protection agreement in which Union Texas Petroleum, as operator of the Langlie-Jal unit, and Reserve Oil and Gas, as operator of the South Langlie-Jal unit, will cooperate in waterflooding the common boundary between the two units involving sections 8 and 17, T. 25 S., R. 37 E., N.M.P.M., Lea County, New Mexico. Your supplemental letter of September 7 advises that concurrence has been received from sufficient working interest owners to comply with section 38 of the Langlie-Jal unit agreement. Such boundary agreement is acceptable to this office.

Please send three copies of the agreement including one with original signatures to this office after it has been executed.

Sincerely yours,

N. O. Frederick

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
NMOCC, Santa Fe ✓
Com. Pub. Lands, Santa Fe
Hobbs



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

April 22, 1971

4424

Union Texas Petroleum
P.O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

Your letter of March 15 transmitted five copies each of revised Exhibits B, C, and D, to the Langlie-Jal unit agreement, Lea County, New Mexico, No. 14-08-0001-11587. Exhibit C was revised pursuant to Section 13 of the unit agreement to exclude non-committed tract No. 19 from unit participation.

The revised Exhibits C and D are hereby accepted effective March 1, 1971 the effective date of the unit agreement. Copies of such exhibits are being distributed to the appropriate Federal offices and one copy of each exhibit is returned herewith. As revised Exhibit B is not presently necessary for our records, we are returning all copies to you.

Sincerely yours.

(SIGNED) CARL C. TRAYWICK
CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:
Washington (w/cy Ex. C)
Hobbs (w/cy Ex. C)
BLM, Santa Fe (w/cy Ex. C.)
Com. Pub. Lands, Santa Fe
NMOCC, Santa Fe

APR 22 AM 9 22

Brewer 1857
Roswell, New Mexico 88201

April 21, 1971

4429

Allied Chemical Corporation
P. O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

Your letter of April 16, 1971, transmits one copy of a "Certificate of Effectiveness" for the Langlie Jal unit agreement, No. 14-08-0001-11587. Such instrument is filed pursuant to Section 22 of the unit agreement to substantiate the effective date of the agreement as March 1, 1971. The "Certificate of Effectiveness" is hereby accepted for the record and copies thereof are being furnished to the appropriate Federal offices.

Sincerely yours,

(ORIG. SGD.) N. O. FREDERICK

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington (w/attach.)
BLM, Santa Fe (w/attach.)
Hobbs (w/attach.)
RMOCC, Santa Fe (ltr. only)✓
Accounts



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

44-17
APR 22 1971
April 21, 1971

Union Texas Petroleum
P.O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

Your letters of January 28, February 2, and April 16, 1971, transmit one executed copy of a cooperative waterflood agreement and certain related papers. By the agreement, Union Texas, as operator of the Langlie-Jal unit and Mobil Oil Corporation, as operator of the Humphrey (Queen) unit, agree to cooperate in certain specified waterflood operations along the common boundary between the two unit areas.

Your letter of April 16 states that 76.74 percent (based on unit participation) of the working interest owners committed to the Langlie-Jal unit agreement have concurred in the decision by Union Texas to enter into the cooperative waterflood agreement. Such percentage satisfies the terms of Section 38 to said unit agreement. Mobil Oil Corporation is the sole owner of all the working interest within the Humphrey (Queen) unit area and its execution of the cooperative waterflood agreement completes the requirements of Section 32 (Border Agreements) to that agreement. Your letter of April 16 also states that the New Mexico Oil Conservation Commission and the Commissioner of Public Lands of the State of New Mexico have approved the agreement.

In view of the foregoing and the fact that the operations to be conducted pursuant to the terms of the cooperative waterflood agreement are regarded as necessary to insure the maximum recovery of unitized substances in the border area, the agreement has been approved on this date.

Sincerely yours,

BILLY J. SHOOKER
Acting Oil and Gas Supervisor

cc:
Mobil Oil Corporation
P.O. Box 633
Midland, Texas 79701
Attn: Mr. John D. Howard
Com. Pub. Lands, Santa Fe



Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

P. O. Box 2120, Houston, Texas 77001

(713) 529-3271

April 14, 1971

APR 15 1971

44-1

State of New Mexico
Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Langlie-Jal Unit
Lea County, New Mexico

Gentlemen:

Enclosed herewith for your file is a recorded copy of the
"Certificate of Effectiveness" for the Langlie-Jal Unit.

Very truly yours,

A handwritten signature in cursive script, appearing to read "James L. Mackey".

James L. Mackey

JLM:pz
Enclosure

MAY 10 1971
235 877

CERTIFICATE OF EFFECTIVENESS
LANGLIE-JAL UNIT
LEA COUNTY, NEW MEXICO
EFFECTIVE DATE - MARCH 1, 1971

WHEREAS, a Unit Agreement, dated December 10, 1961, covering proposed Waterflood Operations in the Langlie-Jal Unit Area was approved by 97.5% of the Working Interest Owners, 98.7% of the Royalty Interest Owners, and was also approved by the Oil Conservation Commission for the State of New Mexico, the Land Commission for the State of New Mexico, and the Director of the United States Geological Survey; and

WHEREAS, said Unit Agreement has been filed for record in the Office of the County Clerk of Lea County, New Mexico, which said filing has been made on January 14, 1971, at 11:00 A.M., the same being recorded in Book 294 of the Records of Lea County, New Mexico, beginning at page 660 and ending on page 733 and is on file with the Oil Conservation Commission for the State of New Mexico, the Land Commission for the State of New Mexico, and the Director of the United States Geological Survey; and

WHEREAS, said Unit Agreement further provides that Unit Operator shall, within thirty days after the effective date, file for record in the office where a counterpart of the agreement is recorded a certificate to the effect that said agreement has become effective according to its terms, and stating further the effective date.

NOW, THEREFORE, Union Texas Petroleum a Division of Allied Chemical Corporation, as Unit Operator does hereby declare and certify that said Unit Agreement is in effect with the effective date of March 1, 1971, and that a description of the lands and formations as to which said Unit is effective is as follows:

Township 24 South, Range 37 East, N.M.P.M.
 Section 31: Lots 2,3,4, SE/4 NW/4, E/2 SW/4, and E/2
 Section 32: All
 Township 25 South, Range 37 East
 Section 4: Lots 2,3,4, S/2 NW/4, SW/4 NE/4, and W/2 SW/4
 Section 5: Lots 1,2,3,4, S/2 N/2, S/2 (All)
 Section 6: Lots 1,2,3,4,5,6,7, SE/4 NW/4, S/2 NE/4 E/2 SW/4, SE/4 (All)
 Section 8: E/2 and NW/4
 Section 9: W/2 W/2
 Section 17: E/2
 containing 3748.06 acres, more or less

The Unitized Formation shall be the productive interval underlying the Unit Area between the top of the Seven Rivers Formation and the base of the Queen Formation, being more specifically the Stratigraphic equivalent of the continuous interval occurring between the depths of 3,095' and 3,691' as shown on the Frontier Perforators, Incorporated, Gamma Ray - Neutron log run on September 1, 1957, in the Skelly Oil Company's Sherrel No. 7 Well, located 1980' from the south and east lines of Section 31, T-24-S, R-37-E, Lea County, New Mexico.

Certificate of Effectiveness

Page 2

In Witness Whereof, this certificate is executed this 1st day
of March, 1971, by the undersigned, as Unit Operator.

Union Texas Petroleum, a
Division of Allied Chemical
Corporation

By J. M. Colburn
Vice-President

11/1
2/11

STATE OF TEXAS

COUNTY OF HARRIS

The foregoing instrument was acknowledged before me this 1st day of March, 1971, by J.M. Callum, Vice-President of Union Texas Petroleum, a Division of Allied Chemical Corporation, a New York Corporation, on behalf of said Corporation.

Frank Nickelson
Notary Public

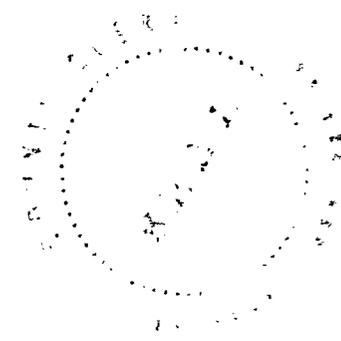
My Commission Expires: June 1, 1971



STATE OF NEW MEXICO
COUNTY OF LEA
FILED

MAR 16 1971

at 3:30 o'clock P M
and Recorded in Book 295
Page 877
JANE RICE SMITH, County Clerk
By [Signature] Deputy



2492



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

971 MAY 13 5 44 PM '71

44-1

May 12, 1971

Union Texas Petroleum
P.O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

Your letter of March 1 transmitted three original and two xerox copies of a joinder to the Langlie Jal unit agreement, No. 14-08-0001-11587, Lea County, New Mexico, executed on January 25, 1971, by Royalty Roundup, Inc., as owner of 0.02416 percent of the basic royalty interest under unit fee tract No. 25. By letter of April 21, 1971, Skelly Oil Company, working interest owner of unit tract No. 25, approved the acceptance of the joinder pursuant to section 31 of the unit agreement.

The above described joinder was filed with this office on March 3, 1971, and is accepted for record purposes. Copies of the joinder are being distributed to the Federal agencies involved.

Sincerely yours,

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington (w/cy joinder)
Hobbs (w/cy joinder)
BLM, Santa Fe (w/cy joinder)
NMOCC, Santa Fe (ltr. only) ✓
Com. Pub. Lands, Santa Fe (ltr. only)
Accounting

71 JAN 12 PM 1 01

January 11, 1971

4429

Union Texas Petroleum
P. O. Box 2120
Houston, Texas 77001

Re: Langlie-Jal Unit
INITIAL PLAN OF OPERATION
Lea County, New Mexico

ATTENTION: Mr. James L. Mackey

Gentlemen:

The Commissioner of Public Lands has this date approved your Initial Plan of Operation for the Langlie-Jal Unit, Lea County, New Mexico. This approval is subject to like approval by the United States Geological Survey. The New Mexico Oil Conservation Commission approved the project and the use of the 47 wells as water injectors by Order No. R-4051, dated November 2, 1970.

We are retaining the one copy for our files.

Sincerely yours,

GORDON G. MARCUM, Director
Oil and Gas Department

AJA/GGM/s

cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico

Drawer 1857
Roswell, New Mexico 88201

JAN 8 1110 00

January 5, 1971

Union Texas Petroleum
P. O. Box 2120
Houston, Texas 77001

4429

Attention: Mr. James L. Mackey

Gentlemen:

Your initial plan of development for the Langlie-Jal unit area, Lea County, New Mexico, proposing to utilize 47 wells for injection purposes while producing oil from an equal number of wells within said unit area, has been approved on this date subject to like approval by the Commissioner of Public Lands of the State of New Mexico. Of the 47 injection wells, 35 are to be converted from producing status and the remaining 12 are to be drilled during the last half of 1971. The New Mexico Oil Conservation Commission approved the project and the use of these 47 wells as water injectors by Order No. R-4051, dated November 2, 1970. Thirty-two of the 47 producing wells are now completed with the other 15 scheduled to be drilled during the second quarter of 1971.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. SGD.) N. O. FREDRICK

N. O. FREDRICK
Regional Oil & Gas Supervisor

cc:
Washington (w/cy of plan)
Hobbs (w/cy of plan)
Com. of Public Lands - Santa Fe (itr. only)
N.M.O.C.C. - Santa Fe (itr. only) ✓



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

January 4 1971

Union Texas Petroleum
P. O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

The Langlie-Jal unit agreement, Lea County, New Mexico, was approved on January 4, 1971. The agreement has been designated No. 14-08-0001-11587. After completing the requirements of Section 22 of the unit agreement please furnish this office with appropriate evidence that the agreement has become effective in accordance with the terms thereof.

Enclosed is one approved copy of the unit agreement for your records. Please furnish the New Mexico Oil Conservation Commission, the Commissioner of Public Lands of the State of New Mexico, and all other interested principals with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SCD.) N. O. FREDERICK

N. O. FREDERICK
Regional Oil and Gas Supervisor

cc:
Washington
BLM, Santa Fe
Hobbs
Com. of Pub. Lands, Santa Fe
NMOCC, Santa Fe ✓
BOHC, Roswell



Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

P. O. Box 2120, Houston, Texas 77001

(713) 529-3271

January 7, 1971

447

New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 88201

Attention: Mr. Don Nutter

Re: Langlie-Jal Unit
Lea County, New Mexico

Gentlemen:

Enclosed herewith for your file is a copy of the approval of the Unit Agreement by the United States Department of the Interior.

Under the terms of the Unit Agreement, the Unit will become effective on March 1, 1971. A copy of the certificate of effectiveness will be mailed to you at a later date.

James L. Mackey

JLM:pz



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

January 4, 1971

Union Texas Petroleum
P. O. Box 2120
Houston, Texas 77001

Attention: Mr. James L. Mackey

Gentlemen:

The Langlie-Jal unit agreement, Lea County, New Mexico, was approved on January 4, 1971. The agreement has been designated No. 14-08-0001-11587. After completing the requirements of Section 22 of the unit agreement, please furnish this office with appropriate evidence that the agreement has become effective in accordance with the terms thereof.

Enclosed is one approved copy of the unit agreement for your records. Please furnish the New Mexico Oil Conservation Commission, the Commissioner of Public Lands of the State of New Mexico, and all other interested principals with appropriate evidence of this approval.

Sincerely yours,

N. O. FREDERICK
Regional Oil and Gas Supervisor

71 JAN 10 11 08 29

4-1-9

CERTIFICATION--DETERMINATION

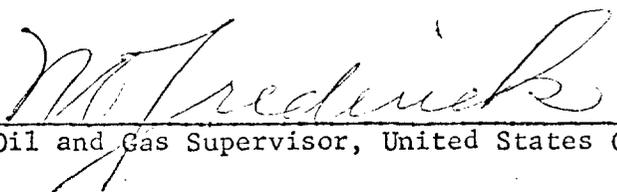
Pursuant to the authority vested in the Secretary of Interior, under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U. S. C. secs. 191, et seq., and delegated to the Oil and Gas Supervisors of the Geological Survey (33 F.R. 5812), I do hereby:

A. Approve the attached agreement for the development and operation of the Langlie-Jal Unit Area, State of New Mexico.

B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.

C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

Dated JAN 4 1971



Oil and Gas Supervisor, United States Geological Survey

70 NOV 19 11 10 AM '70

November 18, 1970

AIR MAIL

Union Texas Petroleum Division
P. O. Box 2120
Houston, Texas 77001

Re: Proposed Langlie-Jal Unit
Lee County, New Mexico

ATTENTION: Mr. Robert P. Vernon

Gentlemen:

The Commissioner of Public Lands has this date approved your Langlie-Jal Unit, Lee County, New Mexico, subject to like approval by the United States Geological Survey.

Enclosed are five (5) Certificates of Approval.

This Unit Agreement is effective upon approval by the United States Geological Survey, therefore, please furnish us a copy of their Certificate of Determination so that we may finish processing this unit.

Very truly yours,

GORDON S. MARCUM, II, Director
Oil and Gas Department

AJA/GGM/s

encls.

cc: USGS-Roswell, New Mexico
OCC-Santa Fe, New Mexico ✓



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87801

GOVERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

October 6, 1970

Mr. Clarence Hinkle
Hinkle, Bondurant, Cox & Eaton
Attorneys at Law
Post Office Box 10
Roswell, New Mexico 88201

Re: Case No. 4429
Order No. R-4036
Applicant:
Union Texas Petroleum Corp.

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC X

Artesia OCC

Aztec OCC

Other Unit Division - State Land Office

CLARENCE E. HINKLE
W. E. BONDURANT, JR.
LEWIS C. COX, JR.
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.
STUART D. SHANOR
C. D. MARTIN
PAUL J. KELLY, JR.

LAW OFFICES
HINKLE, BONDURANT, COX & EATON

600 HINKLE BUILDING
POST OFFICE BOX 10
ROSWELL, NEW MEXICO 88201

September 8, 1970

TELEPHONE (505) 622-6510

MIDLAND, TEXAS OFFICE
521 MIDLAND TOWER
(915) MU 3-4691

70 SEP 9 1 00

Case 4459

Oil Conservation Commission
Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

We are representing Union Texas Petroleum Division of Allied Chemical Corporation. Union Texas is in the process of completing a unit agreement for the development and operation of the Langlie-Jal Unit Area, Lea County, which will embrace a total of 3,748.06 acres in Townships 24 and 25 South, Range 37 East, N.M.P.M. The primary purpose of forming the unit agreement is to inaugurate a waterflood project. The unit agreement will cover the productive interval between the top of the Seven Rivers formation and the base of the Queen formation occurring between the depths of 3,095 feet and 3,691 feet in the Skelly Oil Company Sherrel No. 7 well located 1980 feet from the south and east lines of Section 31, Township 24 South, Range 37 East. The lands embraced within the unit consist of federal, state and fee lands and Union Texas is designated as unit operator.

The proposed waterflood project will be co-extensive with the unit area and it is contemplated that there will be 46 injection wells, of which 34 will be presently producing wells which will be converted to injection wells and 12 new wells will be drilled. There is enclosed herewith a copy of Table No. 1 which has been prepared by Union Texas giving a description of the injection wells and the proposed injection interval in each well. It is contemplated that the initial injection rate will be around 500 barrels of water per day per well and it is estimated that the initial injection pressure will be around 1,000 psi. The source of water will be the Skelly Oil Company Jal water system which originates from the Capitan Reef and produced water.

DOCKET MAILED

Date 9-18-70

September 8, 1970

We are in the process of preparing separate applications for hearings before the Commission, one to be the application for approval of the unit agreement and the other the application for approval of the waterflood project. Union Texas has not yet furnished us with all the necessary information for completing these applications but expects to do so shortly. In the meantime, we would appreciate your arranging for the advertisement of these 2 cases so that they will appear on the examiner's docket for September 30, which we understand is the date set for the next examiner's hearing.

In connection with the waterflood project application, we would like for the notice to indicate that request will be made for a project allowable in accordance with Rule 701 and Union Texas would also like for the order approving the waterflood project to provide for administrative approval of any additional injection wells in the event they should become desirable or necessary in the future.

Just as soon as we receive the necessary information, we will file the formal applications for both of these cases.

Yours sincerely,

HINKLE, BONDURANT, COX & EATON

By 

CEH:cs