



30-025-00754

Hunter Smith
Landman
MCBU – NM Permian
600 N. Dairy Ashford
Houston, Texas 77079
Tel: 281-206-5651
Hunter.A.Smith@ConocoPhillips.com

March 1, 2018

Bureau of Land Management
Carlsbad Field Office
620 E. Greene St.
Carlsbad, New Mexico 88220-6292

New Mexico State Land Office
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87504

RE: Maljamar Cooperative Agreement
I-SEC. No. 341, Serial No. NMNM-070987X
2018 Plan of Development
Lea County, New Mexico
ConocoPhillips Contract 101641

ConocoPhillips Company, as Unit Operator of the Maljamar Cooperative Agreement Unit, hereby submits for your approval, our 2018 Plan of Development.

Items are included as follows: Planned 2018 operations; previous year operations; current status of all wells within the unit; production graphs for each productive reservoir. Also attached are three current maps, each showing respectively the units: structural and geologic interpretations; participating area boundaries; wells, flow-lines, and roads.

It is understood that approval of this plan does not approve the work covered by the plan. Individual approval is still required for such items as APDs/ROWs/etc.

Any modifications or additions to this Plan of Development will be filed as supplements to the plan.

Sincerely,

Hunter Smith
Landman

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2018 Planned Operations:

Staking/Permitting/Drilling

#	Well Name and #	Footage Calls	Section, Township, Range	Formation Code	Well Type	Drilling Type	Status
1	MCA Unit 434	2169' S and 1761' W	K-29-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
2	MCA Unit 494i	125' S and 1700' W	N-23-17S-32E	453GBSA	Injection	Deviated	Onsite Held 8/5/2014
3	MCA Unit 496	941' N and 2382' W	C-29-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/1/2015
4	MCA Unit 500	891' N and 2382' W	C-29-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/1/2015
5	MCA Unit 509	674' S and 1932' E	O-22-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/1/2015
6	MCA Unit 517	2269' S and 1764' W	K-29-17S-32E	453GBSA	Injection	Deviated	Onsite Held 7/28/2015
7	MCA Unit 518	2219' S and 1762' W	K-29-17S-32E	453GBSA	Injection	Deviated	Onsite Held 7/28/2015
8	MCA Unit 521	2119' S and 1759' W	K-29-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
9	MCA Unit 531	958' N and 1839' W	C-27-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
10	MCA Unit 536	557' N and 2136' E	B-26-17S-32E	453GBSA	Producer	Deviated	Onsite Held 8/5/2014
11	MCA Unit 538	590' N and 2134' E	B-26-17S-32E	453GBSA	Injection	Deviated	Onsite Held 8/5/2014
12	MCA Unit 540	637' N and 238' E	A-26-17S-32E	453GBSA	Producer	Deviated	Onsite Held 8/5/2014
13	MCA Unit 558	841' N and 2382' W	C-29-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/1/2015
14	MCA Unit 559	814' N and 1125' E	A-28-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/1/2015
15	MCA Unit 560	1511' N and 1674' E	G-28-17S-32E	453GBSA	Injection	Deviated	Onsite Held 8/5/2014
16	MCA Unit 563	1823' N and 654' W	E-29-17S-32E	453GBSA	Injection	Deviated	Onsite Held

							4/1/2015
17	MCA Unit 566	1873' N and 654' W	E-29-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/1/2015
18	MCA Unit 571	910' N and 1824' W	C-27-17S-32E	453GBSA	Injection	Deviated	Onsite Held 7/28/2015
19	MCA Unit 572	603' S and 2145' W	N-23-17S-32E	453GBSA	Injection	Deviated	Onsite Held 7/28/2015
20	MCA Unit 573	642' S and 375' E	P-21-17S-32E	453GBSA	Injection	Deviated	Onsite Held 8/5/2014
21	MCA Unit 581	791' N and 2382' W	C-29-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/1/2015
22	MCA Unit 585	686' S and 834' E	P-30-17S-32E	453GBSA	Injection	Deviated	Onsite Held 7/28/2015
23	MCA Unit 588	592' S and 375' E	P-21-17S-32E	453GBSA	Injection	Deviated	Onsite Held 7/28/2015
24	MCA Unit 591	641' S and 2178' W	N-23-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
25	MCA Unit 592	566' S and 2113' W	N-23-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
26	MCA Unit 593	649' S and 800' E	P-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
27	MCA Unit 594	724' S and 867' E	P-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
28	MCA Unit 595	692' S and 375' E	P-21-17S-32E	453GBSA	Producer	Deviated	Onsite Held 7/28/2015
29	MCA Unit 596	2518' N and 1798' W	F-26-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/15/2016
30	MCA Unit 621	1104' N and 1468' E	B-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/15/2016
31	MCA Unit 622	1122' N and 1566' E	B-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/15/2016
32	MCA Unit 628	325' N and 1832' E	B-30-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/15/2016
33	MCA Unit 629	1113' N and 1517' E	B-30-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/15/2016
34	MCA Unit 630	1132' N and 1615' E	B-30-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/15/2016

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35	MCA Unit 636	276' N and 1822' E	B-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/15/2016
36	MCA Unit 637	374' N and 1842' E	B-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/15/2016
37	MCA Unit 638	1262' N and 1071' W	1-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/15/2016
38	MCA Unit 639	1229' N and 1033' W	1-30-17S-32E	453GBSA	Producer	Deviated	Onsite Held 4/15/2016
39	MCA Unit 644	1197' N and 995' W	1-30-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/15/2016
40	MCA Unit 645	1164' N and 957' W	1-30-17S-32E	453GBSA	Injection	Deviated	Onsite Held 4/15/2016

Completions

None

Plug Back

None

Conversion

None

Abandonment

WELL NAME	WELL NO.	API	Completion Date	TWN	RNG	SEC	UL	PA Y/N	FORMATION CODE	PRODUCTION STATUS
MCA UNIT	316	300252418300	7/22/1972	17	32	22	M	Y	453GBSA	PUMPING
MCA UNIT	391	300253885300	8/14/2008	17	32	25	H	Y	453GBSA	P&A
MCA UNIT	269	300252370600	3/25/1971	17	32	20	P	Y	453GBSA	PUMPING
MCA UNIT	310	300252410800	6/10/1972	17	32	30	C	Y	453GBSA	PUMPING

Other surface disturbing operations

None

Previous Year Operations (2017):

Drilling

None

Completions

None

Plug Back

None

Conversion

None

Abandonment

WELL NAME	WELL NO.	API	Completion Date	TWN	RNG	SEC	UL	PA Y/N	FORMATION CODE	PRODUCTION STATUS
MCA UNIT	218	300250077300	10/12/1949	17	32	30	M	Y	453GBSA	PUMPING
MCA UNIT	306	300252405700	4/24/1972	17	32	30	B	Y	453GBSA	PUMPING

Other surface disturbing operations

None

Carry-overs:

The following planned new drills are being carried over from ConocoPhillips 2017 Plan of Development within the MCA Unit.

None

The following planned reworks are being carried over from ConocoPhillips 2017 Plan of Development within the MCA Unit.

None

Status of all Wells within the Unit:

WELL NAME	WELL NO.	API	Completion Date	TWN	RNG	SEC	UL	PA Y/N	FORMATION CODE	PRODUCTION STATUS
MCA UNIT	1	300250058700	4/20/1956	17	32	17	B	Y	453GBSA	P&A
MCA UNIT	2	300250060000	8/15/1944	17	32	17	C	Y	453GBSA	P&A
MCA UNIT	3	300250058200	12/22/1944	17	32	16	D	Y	453GBSA	P&A
MCA UNIT	4	300250058300	4/14/1945	17	32	16	C	Y	453GBSA	P&A
MCA UNIT	5	300250058000	8/15/1941	17	32	16	E	Y	453GBSA	PUMPING
MCA UNIT	6	300250059700	10/14/1941	17	32	17	H	Y	453GBSA	P&A
MCA UNIT	7	300250056800	9/18/1956	17	32	17	F	Y	453GBSA	P&A
MCA UNIT	8	300250059800	4/14/1945	17	32	17	I	Y	453GBSA	PUMPING
MCA UNIT	9	300250055800	5/3/1942	17	32	15	M	Y	453GBSA	P&A
MCA UNIT	10	300251274700	8/15/1973	17	32	16	P	Y	453GBSA	P&A

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MCA UNIT	11	300250056700	2/14/1939	17	32	16	N	Y	453GBSA	P&A
MCA UNIT	12	300250057800	2/19/1941	17	32	16	N	Y	453GBSA	P&A
MCA UNIT	13	300250057900	5/12/1941	17	32	16	M	Y	453GBSA	P&A
MCA UNIT	14	300258502000	12/21/1946	17	32	17	P	Y	453GBSA	P&A
MCA UNIT	15	300250058600	9/23/1944	17	32	17	N	Y	453GBSA	P&A
MCA UNIT	16	300250058500	7/31/1943	17	32	17	M	Y	453GBSA	P&A
MCA UNIT	17	300250802700	9/8/1941	17	32	18	M	Y	453GBSA	P&A
MCA UNIT	18	300250803600	9/1/1938	17	32	19	D	Y	453GBSA	P&A
MCA UNIT	19	300250802800	10/9/1948	17	32	19	C	Y	453GBSA	PUMPING
MCA UNIT	20	300250802900	8/15/1946	17	32	19	B	Y	453GBSA	P&A
MCA UNIT	21	300250803000	10/1/1944	17	32	19	A	Y	453GBSA	PUMPING
MCA UNIT	22	300250805900	5/28/1943	17	32	20	D	Y	453GBSA	P&A
MCA UNIT	23	300250806000	6/23/1944	17	32	20	C	Y	453GBSA	P&A
MCA UNIT	24	300250806100	9/1/1944	17	32	20	B	Y	453GBSA	P&A
MCA UNIT	25	300250805500	8/15/1938	17	32	20	A	Y	453GBSA	P&A
MCA UNIT	26	300250060700	7/12/1938	17	32	21	D	Y	453GBSA	P&A
MCA UNIT	27	300250060100	7/9/1930	17	32	21	C	Y	453GBSA	P&A
MCA UNIT	28	300251270700	11/14/1929	17	32	21	B	Y	453GBSA	P&A
MCA UNIT	29	300251274800	8/23/1926	17	32	21	A	Y	453GBSA	P&A
MCA UNIT	30	300250062400	9/24/1938	17	32	22	D	Y	453GBSA	P&A
MCA UNIT	31	300250065300	8/23/1941	17	32	23	D	Y	453GBSA	P&A
MCA UNIT	32	300250065200	12/30/1941	17	32	23	C	Y	453GBSA	P&A
MCA UNIT	33	300250065500	8/25/1944	17	32	23	G	Y	453GBSA	P&A
MCA UNIT	34	300250065800	1/15/1945	17	32	23	F	Y	453GBSA	P&A
MCA UNIT	35	300250065000	3/1/1941	17	32	23	E	Y	453GBSA	P&A
MCA UNIT	36	300250062900	4/27/1941	17	32	22	H	Y	453GBSA	P&A
MCA UNIT	37	300250063300	9/30/1944	17	32	22	G	Y	453GBSA	P&A
MCA UNIT	38	300251278000	9/28/1946	17	32	22	F	Y	453GBSA	P&A
MCA UNIT	39	300250063200	10/30/1944	17	32	22	F	Y	453GBSA	P&A
MCA UNIT	40	300250063500	7/22/1952	17	32	22	E	Y	453GBSA	P&A
MCA UNIT	41	300251279700	3/20/1952	17	32	21	H	Y	453GBSA	P&A
MCA UNIT	42	300250060200	1/28/1935	17	32	21	H	Y	453GBSA	P&A
MCA UNIT	43	300250060300	12/18/1935	17	32	21	G	Y	453GBSA	PUMPING
MCA UNIT	44	300251276300	11/19/1946	17	32	21	F	Y	453GBSA	PUMPING
MCA UNIT	45	300250060500	12/16/1936	17	32	21	F	Y	453GBSA	P&A
MCA UNIT	46	300250803100	2/1/1949	17	32	21	E	Y	453GBSA	PUMPING
MCA UNIT	47	300250060600	3/19/1937	17	32	21	E	Y	453GBSA	P&A
MCA UNIT	48	300250805400	8/11/1937	17	32	20	H	Y	453GBSA	P&A
MCA UNIT	49	300250805600	2/13/1939	17	32	20	G	Y	453GBSA	P&A
MCA UNIT	50	300250805700	11/7/1941	17	32	20	F	Y	453GBSA	P&A
MCA UNIT	51	300250805800	3/19/1942	17	32	20	E	Y	453GBSA	P&A
MCA UNIT	52	300250803700	5/25/1942	17	32	19	H	Y	453GBSA	P&A

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MCA UNIT	53	300250803800	8/5/1942	17	32	19	G	Y	453GBSA	P&A
MCA UNIT	54	300250803900	11/14/1942	17	32	19	F	Y	453GBSA	P&A
MCA UNIT	55	300250804000	4/21/1941	17	32	19	E	Y	453GBSA	P&A
MCA UNIT	56	300250804600	6/22/1941	17	32	19	L	Y	453GBSA	P&A
MCA UNIT	57	300250804400	9/21/1942	17	32	19	K	Y	453GBSA	P&A
MCA UNIT	58	300251277000	10/9/1946	17	32	19	J	Y	453GBSA	P&A
MCA UNIT	59	300250804200	7/19/1942	17	32	19	J	Y	453GBSA	P&A
MCA UNIT	60	300250803500	5/19/1942	17	32	19	I	Y	453GBSA	P&A
MCA UNIT	61	300251277100	2/14/1951	17	32	20	L	Y	453GBSA	P&A
MCA UNIT	62	300250806800	3/6/1942	17	32	20	L	Y	453GBSA	P&A
MCA UNIT	63	300250806600	11/10/1941	17	32	20	K	Y	453GBSA	P&A
MCA UNIT	64	300251277200	12/1/1948	17	32	20	K	Y	453GBSA	P&A
MCA UNIT	65	300250806400	12/15/1939	17	32	20	J	Y	453GBSA	P&A
MCA UNIT	66	300250806200	3/1/1939	17	32	20	I	Y	453GBSA	P&A
MCA UNIT	67	300250061000	4/23/1941	17	32	21	L	Y	453GBSA	INJECTION
MCA UNIT	68	300250061500	10/3/1949	17	32	21	K	Y	453GBSA	P&A
MCA UNIT	69	300250061100	9/27/1942	17	32	21	K	Y	453GBSA	PUMPING
MCA UNIT	70	300250060400	6/12/1936	17	32	21	J	Y	453GBSA	P&A
MCA UNIT	71	300250061200	6/29/1942	17	32	21	I	Y	453GBSA	PUMPING
MCA UNIT	72	300250063000	4/20/1942	17	32	22	L	Y	453GBSA	P&A
MCA UNIT	73	300250063100	6/1/1944	17	32	22	K	Y	453GBSA	PUMPING
MCA UNIT	74	300250062700	7/29/1940	17	32	22	J	Y	453GBSA	P&A
MCA UNIT	75	300251271100	5/17/1940	17	32	22	I	Y	453GBSA	PUMPING
MCA UNIT	76	300250065900	6/9/1940	17	32	23	L	Y	453GBSA	P&A
MCA UNIT	77	300250064600	9/25/1941	17	32	23	K	Y	453GBSA	P&A
MCA UNIT	78	300250064800	6/30/1944	17	32	23	J	Y	453GBSA	P&A
MCA UNIT	79	300250064700	12/30/1941	17	32	23	I	Y	453GBSA	P&A
MCA UNIT	80	300250065600	3/19/1942	17	32	23	P	Y	453GBSA	P&A
MCA UNIT	81	300250065700	1/28/1944	17	32	23	O	Y	453GBSA	P&A
MCA UNIT	82	300250064400	3/12/1940	17	32	23	N	Y	453GBSA	P&A
MCA UNIT	83	300250064900	9/30/1958	17	32	23	M	Y	453GBSA	PUMPING
MCA UNIT	84	300250063900	1/15/1940	17	32	22	P	Y	453GBSA	INJECTION
MCA UNIT	85	300250064000	4/25/1940	17	32	22	O	Y	453GBSA	P&A
MCA UNIT	86	300251279500	1/18/1956	17	32	22	P	Y	453GBSA	PUMPING
MCA UNIT	87	300250062600	6/18/1940	17	32	22	N	Y	453GBSA	P&A
MCA UNIT	88	300250062800	12/26/1940	17	32	22	M	Y	453GBSA	PUMPING
MCA UNIT	89	300251279600	8/27/1947	17	32	22	M	Y	453GBSA	P&A
MCA UNIT	90	300250061600	12/22/1940	17	32	21	P	Y	453GBSA	P&A
MCA UNIT	91	300250061700	12/30/1940	17	32	21	O	Y	453GBSA	P&A
MCA UNIT	92	300250060900	12/13/1940	17	32	21	N	Y	453GBSA	PUMPING
MCA UNIT	93	300250060800	8/7/1940	17	32	21	M	Y	453GBSA	PUMPING
MCA UNIT	94	300250806300	9/6/1939	17	32	20	P	Y	453GBSA	INJECTION

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MCA UNIT	95	300250806500	6/26/1940	17	32	20	O	Y	453GBSA	PUMPING
MCA UNIT	96	300251275500	2/4/1949	17	32	20	N	Y	453GBSA	PUMPING
MCA UNIT	97	300250806700	4/4/1941	17	32	20	N	Y	453GBSA	P&A
MCA UNIT	98	300250806900	3/10/1941	17	32	20	M	Y	453GBSA	P&A
MCA UNIT	99	300251276400	1/7/1947	17	32	19	P	Y	453GBSA	P&A
MCA UNIT	100	300250804100	9/6/1941	17	32	19	P	Y	453GBSA	P&A
MCA UNIT	101	300250804300	11/15/1941	17	32	19	O	Y	453GBSA	P&A
MCA UNIT	102	300251257900	3/23/1943	17	32	19	N	Y	453GBSA	P&A
MCA UNIT	103	300250804700	1/10/1942	17	32	19	M	Y	453GBSA	PUMPING
MCA UNIT	104	300250077700	9/2/1942	17	32	30	D	Y	453GBSA	P&A
MCA UNIT	105	300250077800	1/23/1943	17	32	30	C	Y	453GBSA	P&A
MCA UNIT	106	300251276200	7/21/1949	17	32	30	C	Y	453GBSA	P&A
MCA UNIT	107	300250076900	12/1/1940	17	32	30	B	Y	453GBSA	P&A
MCA UNIT	108	300250078300	7/24/1940	17	32	30	A	Y	453GBSA	PUMPING
MCA UNIT	109	300250075900	10/1/1940	17	32	29	D	Y	453GBSA	INJECTION
MCA UNIT	110	300250075800	10/1/1940	17	32	29	C	Y	453GBSA	P&A
MCA UNIT	111	300250076700	2/14/1940	17	32	29	B	Y	453GBSA	INJECTION
MCA UNIT	112	300250075200	6/8/1939	17	32	29	A	Y	453GBSA	P&A
MCA UNIT	113	300251280400	12/1/1959	17	32	28	D	Y	453GBSA	PUMPING
MCA UNIT	114	300250073300	11/12/1939	17	32	28	D	Y	453GBSA	PUMPING
MCA UNIT	115	300250073400	9/1/1940	17	32	28	C	Y	453GBSA	PUMPING
MCA UNIT	116	300251276900	1/30/1989	17	32	28	B	Y	453GBSA	PUMPING
MCA UNIT	117	300250073700	8/29/1940	17	32	28	B	Y	453GBSA	P&A
MCA UNIT	118	300250073800	9/1/1940	17	32	28	A	Y	453GBSA	PUMPING
MCA UNIT	119	300250072600	7/14/1940	17	32	27	D	Y	453GBSA	P&A
MCA UNIT	120	300250072000	4/15/1940	17	32	27	C	Y	453GBSA	PUMPING
MCA UNIT	121	300250071500	3/14/1940	17	32	27	B	Y	453GBSA	INJECTION
MCA UNIT	122	300250071600	7/8/1939	17	32	27	A	Y	453GBSA	PUMPING
MCA UNIT	123	300250070500	11/13/1939	17	32	26	D	Y	453GBSA	INJECTION
MCA UNIT	124	300250070600	10/8/1940	17	32	26	C	Y	453GBSA	P&A
MCA UNIT	125	300250070000	3/25/1943	17	32	26	B	Y	453GBSA	P&A
MCA UNIT	126	300251270900	12/31/1941	17	32	26	A	Y	453GBSA	PUMPING
MCA UNIT	127	300250067800	5/12/1942	17	32	25	D	Y	453GBSA	INJECTION
MCA UNIT	128	300250069400	1/23/1949	17	32	25	F	Y	453GBSA	PUMPING
MCA UNIT	129	300250067900	5/12/1942	17	32	25	C	Y	453GBSA	P&A
MCA UNIT	130	300251270800	11/20/1948	17	32	25	G	Y	453GBSA	PUMPING
MCA UNIT	131	300250068200	9/22/1942	17	32	25	B	Y	453GBSA	INJECTION
MCA UNIT	132	300250068400	12/23/1942	17	32	25	A	Y	453GBSA	P&A
MCA UNIT	133	300250156000	5/16/1943	17	33	30	D	Y	453GBSA	P&A
MCA UNIT	134	300251270100	1/14/1944	17	33	30	C	Y	453GBSA	P&A
MCA UNIT	135	300250156400	9/11/1943	17	33	30	F	Y	453GBSA	P&A
MCA UNIT	136	300250156100	5/13/1943	17	33	30	E	Y	453GBSA	PUMPING

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MCA UNIT	137	300250068500	1/6/1943	17	32	25	H	Y	453GBSA	INJECTION
MCA UNIT	138	300250068300	10/25/1942	17	32	25	G	Y	453GBSA	PUMPING
MCA UNIT	139	300250068100	8/29/1942	17	32	25	F	Y	453GBSA	INJECTION
MCA UNIT	140	300250068000	7/31/1942	17	32	25	E	Y	453GBSA	PUMPING
MCA UNIT	141	300250069700	8/26/1943	17	32	26	H	Y	453GBSA	INJECTION
MCA UNIT	142	300250069900	2/12/1942	17	32	26	G	Y	453GBSA	PUMPING
MCA UNIT	143	300250071200	10/21/1941	17	32	26	F	Y	453GBSA	P&A
MCA UNIT	144	300250071100	4/20/1940	17	32	26	E	Y	453GBSA	P&A
MCA UNIT	145	300250071400	2/27/1940	17	32	27	H	Y	453GBSA	INJECTION
MCA UNIT	146	300250071700	12/6/1939	17	32	27	G	Y	453GBSA	PUMPING
MCA UNIT	147	300250071900	2/4/1940	17	32	27	F	Y	453GBSA	P&A
MCA UNIT	148	300250072200	5/10/1940	17	32	27	E	Y	453GBSA	P&A
MCA UNIT	149	300251279200	3/7/1947	17	32	27	E	Y	453GBSA	PUMPING
MCA UNIT	150	300250074000	11/9/1940	17	32	28	H	Y	453GBSA	INJECTION
MCA UNIT	151	300250073900	9/1/1940	17	32	28	G	Y	453GBSA	PUMPING
MCA UNIT	152	300250073600	8/15/1940	17	32	28	F	Y	453GBSA	P&A
MCA UNIT	153	300250073500	7/24/1940	17	32	28	E	Y	453GBSA	P&A
MCA UNIT	154	300250075300	8/20/1940	17	32	29	H	Y	453GBSA	INJECTION
MCA UNIT	155	300250076800	5/4/1940	17	32	29	G	Y	453GBSA	P&A
MCA UNIT	156	300251275600	4/19/1949	17	32	29	F	Y	453GBSA	P&A
MCA UNIT	157	300250076000	10/9/1940	17	32	29	F	Y	453GBSA	P&A
MCA UNIT	158	300250076100	12/6/1940	17	32	29	E	Y	453GBSA	P&A
MCA UNIT	159	300250078400	10/17/1940	17	32	30	H	Y	453GBSA	P&A
MCA UNIT	160	300250077000	2/26/1941	17	32	30	G	Y	453GBSA	P&A
MCA UNIT	161	300251278100	5/16/1951	17	32	30	J	Y	453GBSA	P&A
MCA UNIT	162	300250078000	9/11/1947	17	32	30	F	Y	453GBSA	P&A
MCA UNIT	163	300250077900	7/5/1945	17	32	30	E	Y	453GBSA	PUMPING
MCA UNIT	164	300250077100	7/14/1945	17	32	30	L	Y	453GBSA	P&A
MCA UNIT	165	300250077200	5/9/1941	17	32	30	K	Y	453GBSA	PUMPING
MCA UNIT	166	300250077600	7/19/1941	17	32	30	J	Y	453GBSA	P&A
MCA UNIT	167	300250077500	2/20/1941	17	32	30	I	Y	453GBSA	PUMPING
MCA UNIT	168	300251279800	6/20/1950	17	32	30	I	Y	453GBSA	PUMPING
MCA UNIT	169	300250075500	4/28/1941	17	32	29	L	Y	453GBSA	INJECTION
MCA UNIT	170	300250075400	2/8/1941	17	32	29	K	Y	453GBSA	PUMPING
MCA UNIT	171	300250076400	5/18/1941	17	32	29	J	Y	453GBSA	P&A
MCA UNIT	172	300250076600	9/20/1949	17	32	29	O	Y	453GBSA	PUMPING
MCA UNIT	173	300250076200	2/28/1941	17	32	29	I	Y	453GBSA	PUMPING
MCA UNIT	174	300251279400	3/10/1969	17	32	28	L	Y	453GBSA	P&A
MCA UNIT	175	300250074100	10/12/1940	17	32	28	L	Y	453GBSA	P&A
MCA UNIT	176	300250074200	10/31/1940	17	32	28	K	Y	453GBSA	PUMPING
MCA UNIT	177	300252148900	10/1/1966	17	32	28	J	Y	453GBSA	PUMPING
MCA UNIT	178	300250074300	12/13/1940	17	32	28	J	Y	453GBSA	P&A

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MCA UNIT	179	300250074400	11/1/1940	17	32	28	I	Y	453GBSA	P&A
MCA UNIT	180	300250072800	10/1/1940	17	32	27	L	Y	453GBSA	INJECTION
MCA UNIT	181	300250072400	6/15/1940	17	32	27	K	Y	453GBSA	PUMPING
MCA UNIT	182	300251279300	12/22/1969	17	32	27	J	Y	453GBSA	P&A
MCA UNIT	183	300250073000	2/26/1948	17	32	27	O	Y	453GBSA	P&A
MCA UNIT	184	300250071800	2/27/1940	17	32	27	J	Y	453GBSA	INJECTION
MCA UNIT	185	300250073200	12/25/1954	17	32	27	J	Y	453GBSA	PUMPING
MCA UNIT	186	300250072100	5/19/1940	17	32	27	I	Y	453GBSA	P&A
MCA UNIT	187	300250070400	10/25/1940	17	32	26	L	Y	453GBSA	P&A
MCA UNIT	188	300250070900	7/27/1941	17	32	26	K	Y	453GBSA	P&A
MCA UNIT	189	300250070100	12/19/1940	17	32	26	J	Y	453GBSA	INJECTION
MCA UNIT	190	300250069000	6/25/1943	17	32	25	L	Y	453GBSA	P&A
MCA UNIT	191	300250069300	12/6/1948	17	32	25	K	Y	453GBSA	PUMPING
MCA UNIT	192	300250068900	5/20/1943	17	32	25	K	Y	453GBSA	PUMPING
MCA UNIT	193	300250069200	10/20/1948	17	32	25	J	Y	453GBSA	PUMPING
MCA UNIT	194	300250068700	3/15/1943	17	32	25	J	Y	453GBSA	P&A
MCA UNIT	195	300250069100	10/1/1948	17	32	25	I	Y	453GBSA	P&A
MCA UNIT	196	300250068600	2/19/1943	17	32	25	I	Y	453GBSA	PUMPING
MCA UNIT	197	300250833600	1/21/1949	17	33	30	L	Y	453GBSA	P&A
MCA UNIT	198	300250156200	6/6/1943	17	33	30	L	Y	453GBSA	P&A
MCA UNIT	199	300250156300	6/30/1943	17	33	30	K	Y	453GBSA	P&A
MCA UNIT	200	300250068800	5/19/1943	17	32	25	P	Y	453GBSA	P&A
MCA UNIT	201	300250071000	10/10/1948	17	32	26	N	Y	453GBSA	P&A
MCA UNIT	202	300250070700	4/3/1941	17	32	26	M	Y	453GBSA	P&A
MCA UNIT	203	300250072500	10/25/1940	17	32	27	P	Y	453GBSA	P&A
MCA UNIT	204	300250072300	7/13/1940	17	32	27	O	Y	453GBSA	PUMPING
MCA UNIT	205	300250072700	12/10/1940	17	32	27	N	Y	453GBSA	P&A
MCA UNIT	206	300250072900	12/6/1940	17	32	27	M	Y	453GBSA	PUMPING
MCA UNIT	207	300250074600	12/27/1940	17	32	28	P	Y	453GBSA	P&A
MCA UNIT	208	300250074700	1/25/1941	17	32	28	O	Y	453GBSA	P&A
MCA UNIT	209	300250074800	12/30/1940	17	32	28	N	Y	453GBSA	P&A
MCA UNIT	210	300250074900	12/26/1940	17	32	28	M	Y	453GBSA	P&A
MCA UNIT	211	300250076300	6/19/1941	17	32	29	P	Y	453GBSA	INJECTION
MCA UNIT	212	300250076500	8/28/1941	17	32	29	O	Y	453GBSA	PUMPING
MCA UNIT	213	300250075700	10/23/1941	17	32	29	N	Y	453GBSA	P&A
MCA UNIT	214	300250075600	9/18/1941	17	32	29	M	Y	453GBSA	P&A
MCA UNIT	215	300250078100	8/20/1947	17	32	30	P	Y	453GBSA	P&A
MCA UNIT	216	300250078200	1/22/1950	17	32	30	O	Y	453GBSA	P&A
MCA UNIT	217	300250077400	1/24/1950	17	32	30	N	Y	453GBSA	P&A
MCA UNIT	218	300250077300	10/12/1949	17	32	30	M	Y	453GBSA	P&A
MCA UNIT	219	300250078500	4/5/1950	17	32	31	C	Y	453GBSA	PUMPING
MCA UNIT	220	300250079800	10/1/1939	17	32	33	D	Y	453GBSA	P&A

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MCA UNIT	221	300250079900	3/28/1941	17	32	33	C	Y	453GBSA	P&A
MCA UNIT	222	300251278500	2/5/1960	17	32	33	B	Y	453GBSA	PUMPING
MCA UNIT	223	300250080000	3/1/1941	17	32	33	B	Y	453GBSA	P&A
MCA UNIT	224	300250080100	2/17/1941	17	32	33	A	Y	453GBSA	P&A
MCA UNIT	225	300251278200	8/20/1954	17	32	34	D	Y	453GBSA	PUMPING
MCA UNIT	226	300250081700	4/23/1941	17	32	34	D	Y	453GBSA	P&A
MCA UNIT	227	300250081800	9/10/1941	17	32	34	C	Y	453GBSA	P&A
MCA UNIT	228	300250081900	5/19/1941	17	32	34	B	Y	453GBSA	P&A
MCA UNIT	229	300250082000	8/21/1941	17	32	34	E	Y	453GBSA	P&A
MCA UNIT	230	300250080900	3/31/1941	17	32	33	G	Y	453GBSA	P&A
MCA UNIT	231	300250080300	8/16/1954	17	32	33	G	Y	453GBSA	PUMPING
MCA UNIT	232	300250080700	1/2/1946	17	32	33	F	Y	453GBSA	P&A
MCA UNIT	233	300250080800	1/10/1946	17	32	33	E	Y	453GBSA	PUMPING
MCA UNIT	234	300252052200	7/26/1963	17	32	21	M	Y	453GBSA	PUMPING
MCA UNIT	235	300252049600	7/28/1963	17	32	28	F	Y	453GBSA	P&A
MCA UNIT	242	300252224700	11/26/1967	17	32	19	L	Y	453GBSA	P&A
MCA UNIT	245	300252266100	8/31/1968	17	32	21	A	Y	453GBSA	PUMPING
MCA UNIT	246	300253615600	11/4/1950	17	32	17	P	Y	453GBSA	P&A
MCA UNIT	247	300252270000	8/29/1968	17	32	23	H	Y	453GBSA	P&A
MCA UNIT	249	300250070800	2/20/1943	17	32	26	N	Y	453GBSA	P&A
MCA UNIT	251	300252343300	2/27/1970	17	32	21	N	Y	453GBSA	PUMPING
MCA UNIT	252	300252348200	5/3/1970	17	32	28	D	Y	453GBSA	P&A
MCA UNIT	253	300250805200	7/30/1961	17	32	20	E	Y	453GBSA	P&A
MCA UNIT	254	300252348700	5/17/1970	17	32	28	O	Y	453GBSA	PUMPING
MCA UNIT	255	300250804900	9/20/1960	17	32	20	C	Y	453GBSA	P&A
MCA UNIT	256	300252350900	6/6/1970	17	32	20	I	Y	453GBSA	P&A
MCA UNIT	257	300250805000	12/18/1960	17	32	20	F	Y	453GBSA	P&A
MCA UNIT	258	300252023100	12/31/1963	17	32	20	A	Y	453GBSA	P&A
MCA UNIT	259	300250803200	5/1/1950	17	32	19	I	Y	453GBSA	P&A
MCA UNIT	260	300252356900	8/23/1970	17	32	28	F	Y	453GBSA	PUMPING
MCA UNIT	261	300252355900	8/17/1970	17	32	28	N	Y	453GBSA	PUMPING
MCA UNIT	262	300252366000	1/15/1971	17	32	21	E	Y	453GBSA	P&A
MCA UNIT	263	300252367200	1/25/1971	17	32	20	E	Y	453GBSA	P&A
MCA UNIT	264	300252367300	2/15/1971	17	32	19	I	Y	453GBSA	PUMPING
MCA UNIT	265	300252368600	2/21/1971	17	32	20	L	Y	453GBSA	PUMPING
MCA UNIT	266	300252368700	3/24/1971	17	32	20	K	Y	453GBSA	PUMPING
MCA UNIT	267	300250059600	10/12/1962	17	32	17	M	Y	453GBSA	PUMPING
MCA UNIT	268	300252370500	4/30/1971	17	32	28	K	Y	453GBSA	P&A
MCA UNIT	269	300252370600	3/25/1971	17	32	20	P	Y	453GBSA	PUMPING
MCA UNIT	270	300252370700	3/6/1971	17	32	29	F	Y	453GBSA	PUMPING
MCA UNIT	271	300252371500	3/12/1971	17	32	20	A	Y	453GBSA	P&A
MCA UNIT	273	300252373000	4/27/1971	17	32	26	L	Y	453GBSA	INJECTION

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MCA UNIT	274	300252373100	4/1/1971	17	32	28	A	Y	453GBSA	PUMPING
MCA UNIT	275	300252373800	4/18/1971	17	32	33	H	Y	453GBSA	PUMPING
MCA UNIT	276	300252373200	4/8/1971	17	32	19	P	Y	453GBSA	PUMPING
MCA UNIT	277	300252373300	4/17/1971	17	32	29	B	Y	453GBSA	P&A
MCA UNIT	278	300252393000	12/16/1971	17	32	30	G	Y	453GBSA	P&A
MCA UNIT	279	300252373900	4/25/1971	17	32	19	P	Y	453GBSA	P&A
MCA UNIT	280	300252374000	4/26/1971	17	32	28	G	Y	453GBSA	P&A
MCA UNIT	281	300252374100	5/2/1971	17	32	29	D	Y	453GBSA	PUMPING
MCA UNIT	282	300252384600	8/23/1971	17	32	27	C	Y	453GBSA	PUMPING
MCA UNIT	283	300252374300	5/12/1971	17	32	19	I	Y	453GBSA	PUMPING
MCA UNIT	284	300252374400	6/25/1971	17	32	28	E	Y	453GBSA	PUMPING
MCA UNIT	285	300252374500	5/13/1971	17	32	19	J	Y	453GBSA	PUMPING
MCA UNIT	286	300252384800	8/27/1971	17	32	19	M	Y	453GBSA	PUMPING
MCA UNIT	287	300252380700	7/27/1971	17	32	20	I	Y	453GBSA	PUMPING
MCA UNIT	288	300252377800	6/1/1971	17	32	29	D	Y	453GBSA	P&A
MCA UNIT	289	300252378900	6/21/1971	17	32	30	B	Y	453GBSA	P&A
MCA UNIT	290	300252379800	8/2/1971	17	32	29	D	Y	453GBSA	P&A
MCA UNIT	291	300252383600	8/13/1971	17	32	19	L	Y	453GBSA	P&A
MCA UNIT	292	300252392000	11/25/1971	17	32	27	D	Y	453GBSA	P&A
MCA UNIT	293	300252376700	5/26/1971	17	32	29	K	Y	453GBSA	P&A
MCA UNIT	294	300252379700	8/2/1971	17	32	29	K	Y	453GBSA	PUMPING
MCA UNIT	295	300252382400	12/24/1971	17	32	30	I	Y	453GBSA	PUMPING
MCA UNIT	296	300252379000	7/5/1971	17	32	28	K	Y	453GBSA	PUMPING
MCA UNIT	297	300252385500	9/9/1971	17	32	30	F	Y	453GBSA	P&A
MCA UNIT	298	300252382500	7/28/1971	17	32	19	H	Y	453GBSA	P&A
MCA UNIT	299	300252393800	12/27/1971	17	32	27	D	Y	453GBSA	PUMPING
MCA UNIT	300	300252398400	12/31/1971	17	32	33	C	Y	453GBSA	PUMPING
MCA UNIT	301	300252422600	9/18/1972	17	32	28	J	Y	453GBSA	INJECTION
MCA UNIT	302	300252429800	12/26/1972	17	32	27	P	Y	453GBSA	P&A
MCA UNIT	303	300250805300	7/7/1959	17	32	20	J	Y	453GBSA	P&A
MCA UNIT	304	300252400900	1/13/1972	17	32	30	I	Y	453GBSA	PUMPING
MCA UNIT	305	300252405600	5/30/1972	17	32	30	J	Y	453GBSA	PUMPING
MCA UNIT	306	300252405700	4/24/1972	17	32	30	B	Y	453GBSA	P&A
MCA UNIT	307	300252405800	4/21/1972	17	32	27	A	Y	453GBSA	P&A
MCA UNIT	308	300252407600	5/9/1972	17	32	29	G	Y	453GBSA	PUMPING
MCA UNIT	309	300252409500	5/27/1972	17	32	19	B	Y	453GBSA	P&A
MCA UNIT	310	300252410800	6/10/1972	17	32	30	C	Y	453GBSA	PUMPING
MCA UNIT	311	300252410100	6/7/1972	17	32	26	C	Y	453GBSA	P&A
MCA UNIT	312	300252410900	5/23/1972	17	32	22	H	Y	453GBSA	PUMPING
MCA UNIT	313	300252412100	7/27/1972	17	32	25	C	Y	453GBSA	PUMPING
MCA UNIT	314	300252412700	6/19/1972	17	32	27	E	Y	453GBSA	PUMPING
MCA UNIT	315	300252412800	6/30/1972	17	32	27	L	Y	453GBSA	P&A

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MCA UNIT	316	300252418300	7/22/1972	17	32	22	M	Y	453GBSA	PUMPING
MCA UNIT	317	300252418600	7/30/1972	17	32	27	D	Y	453GBSA	PUMPING
MCA UNIT	318	300252419600	8/24/1972	17	32	28	A	Y	453GBSA	PUMPING
MCA UNIT	319	300252421300	8/2/1972	17	32	29	G	Y	453GBSA	P&A
MCA UNIT	320	300252421400	8/25/1972	17	32	19	L	Y	453GBSA	PUMPING
MCA UNIT	321	300252423300	9/13/1972	17	32	27	L	Y	453GBSA	PUMPING
MCA UNIT	322	300252421800	8/30/1972	17	32	26	E	Y	453GBSA	PUMPING
MCA UNIT	323	300252423400	10/5/1972	17	32	30	K	Y	453GBSA	PUMPING
MCA UNIT	324	300252423500	10/18/1972	17	32	28	L	Y	453GBSA	PUMPING
MCA UNIT	325	300252423600	9/24/1972	17	32	22	I	Y	453GBSA	PUMPING
MCA UNIT	326	300252425800	10/26/1972	17	32	21	P	Y	453GBSA	PUMPING
MCA UNIT	327	300252427400	12/1/1972	17	32	22	O	Y	453GBSA	PUMPING
MCA UNIT	328	300252426700	10/29/1972	17	32	21	O	Y	453GBSA	PUMPING
MCA UNIT	329	300252427500	11/22/1972	17	32	27	J	Y	453GBSA	PUMPING
MCA UNIT	330	300252427100	11/13/1972	17	32	23	M	Y	453GBSA	PUMPING
MCA UNIT	331	300250805100	7/30/1961	17	32	20	D	Y	453GBSA	INJECTION
MCA UNIT	332	300252434900	2/7/1973	17	32	28	O	Y	453GBSA	PUMPING
MCA UNIT	333	300252435200	2/13/1973	17	32	28	P	Y	453GBSA	PUMPING
MCA UNIT	334	300252436800	2/24/1973	17	32	25	E	Y	453GBSA	PUMPING
MCA UNIT	335	300252436900	3/2/1973	17	32	27	H	Y	453GBSA	PUMPING
MCA UNIT	336	300252437000	3/7/1973	17	32	23	L	Y	453GBSA	P&A
MCA UNIT	337	300252437500	3/25/1973	17	32	27	H	Y	453GBSA	PUMPING
MCA UNIT	338	300252437600	4/8/1973	17	32	22	L	Y	453GBSA	P&A
MCA UNIT	339	300252437700	3/30/1973	17	32	23	N	Y	453GBSA	P&A
MCA UNIT	340	300252446100	8/21/1973	17	32	21	G	Y	453GBSA	P&A
MCA UNIT	341	300252446200	8/16/1973	17	32	22	P	Y	453GBSA	PUMPING
MCA UNIT	342	300252446300	9/10/1973	17	32	26	D	Y	453GBSA	P&A
MCA UNIT	343	300252448300	9/12/1973	17	32	26	F	Y	453GBSA	PUMPING
MCA UNIT	344	300252449800	9/13/1973	17	32	25	G	Y	453GBSA	PUMPING
MCA UNIT	345	300252449900	10/18/1973	17	32	22	J	Y	453GBSA	P&A
MCA UNIT	346	300252451300	10/3/1973	17	32	27	M	Y	453GBSA	PUMPING
MCA UNIT	347	300252451500	10/15/1973	17	32	27	A	Y	453GBSA	PUMPING
MCA UNIT	348	300252452700	10/17/1973	17	32	27	I	Y	453GBSA	PUMPING
MCA UNIT	349	300252454500	10/22/1987	17	32	23	M	Y	453GBSA	P&A
MCA UNIT	350	300252454600	11/5/1973	17	32	26	L	Y	453GBSA	P&A
MCA UNIT	351	300252454700	11/28/1973	17	32	26	H	Y	453GBSA	PUMPING
MCA UNIT	352	300252457400	1/12/1974	17	32	25	H	Y	453GBSA	PUMPING
MCA UNIT	353	300252458300	12/2/1973	17	32	27	N	Y	453GBSA	PUMPING
MCA UNIT	354	300252459900	12/13/1973	17	32	23	O	Y	453GBSA	PUMPING
MCA UNIT	355	300250061400	5/1/1954	17	32	21	F	Y	453GBSA	P&A
MCA UNIT	356	300250069500	10/2/1949	17	32	25	P	Y	453GBSA	P&A
MCA UNIT	357	300252584900	6/4/1978	17	32	28	M	Y	453GBSA	PUMPING

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MCA UNIT	358	300252660600	11/12/1980	17	32	20	H	Y	453GBSA	P&A
MCA UNIT	359	300252707600	10/15/1981	17	32	20	H	Y	453GBSA	P&A
MCA UNIT	360	300252706300	10/5/1981	17	32	20	H	Y	453GBSA	P&A
MCA UNIT	361	300252706400	7/24/1981	17	32	20	I	Y	453GBSA	P&A
MCA UNIT	362	300252706500	7/30/1981	17	32	20	I	Y	453GBSA	P&A
MCA UNIT	363	300252706600	6/20/1981	17	32	20	I	Y	453GBSA	P&A
MCA UNIT	364	300252706700	7/17/1981	17	32	20	I	Y	453GBSA	P&A
MCA UNIT	365	300252898800	12/26/1984	17	32	29	B	Y	453GBSA	P&A
MCA UNIT	366	300252942700	12/14/1985	17	32	26	D	Y	453GBSA	PUMPING
MCA UNIT	367	300252985500	5/29/1987	17	32	23	O	Y	453GBSA	PUMPING
MCA UNIT	368	300252985400	5/29/1987	17	32	21	G	Y	453GBSA	PUMPING
MCA UNIT	369	300252985300	4/13/1987	17	32	29	E	Y	453GBSA	PUMPING
MCA UNIT	370	300252985200	5/20/1987	17	32	33	G	Y	453GBSA	P&A
MCA UNIT	371	300252995500	10/7/1987	17	32	33	F	Y	453GBSA	P&A
MCA UNIT	372	300252995600	10/11/1987	17	32	20	P	Y	453GBSA	PUMPING
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MCA UNIT	374	300252996700	11/19/1987	17	32	20	L	Y	453GBSA	P&A
MCA UNIT	375	300253011400	11/24/1987	17	32	23	J	Y	453GBSA	PUMPING
MCA UNIT	376	300253012700	1/22/1988	17	32	23	N	Y	453GBSA	PUMPING
MCA UNIT	377	300253011500	2/25/1988	17	32	23	K	Y	453GBSA	PUMPING
MCA UNIT	378	300253011600	2/7/1988	17	32	22	J	Y	453GBSA	P&A
MCA UNIT	379	300253034700	8/4/1988	17	32	21	G	Y	453GBSA	P&A
MCA UNIT	380	300253033700	9/19/1988	17	32	28	B	Y	453GBSA	INJECTION
MCA UNIT	381	300253034800	8/29/1988	17	33	30	K	Y	453GBSA	P&A
MCA UNIT	382	300250074500	11/9/1961	17	32	28	I	Y	453GBSA	PUMPING
MCA UNIT	383	300250081500	2/24/1962	17	32	33	A	Y	453GBSA	P&A
MCA UNIT	384	300253049100	8/27/1989	17	32	27	E	Y	453GBSA	PUMPING
MCA UNIT	385	300253073100	1/20/1990	17	32	22	O	Y	453GBSA	P&A
MCA UNIT	386	300253110000	4/5/1991	17	32	29	F	Y	453GBSA	INJECTION
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MCA UNIT	390	300253885200	8/8/2008	17	33	30	E	Y	453GBSA	PUMPING
MCA UNIT	391	300253885300	8/14/2008	17	32	25	H	Y	453GBSA	P&A
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MCA UNIT	393	300253787900	11/17/2006	17	32	29	H	Y	453GBSA	PUMPING
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MCA UNIT	396	300253797600	6/17/2007	17	32	28	L	Y	453GBSA	PUMPING
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MCA UNIT	398	300253897100	10/18/2008	17	32	25	F	Y	453GBSA	PUMPING
MCA UNIT	399	300253897200	1/8/2009	17	32	27	K	Y	453GBSA	INJECTION
MCA UNIT	400	300253897300	1/22/2009	17	32	27	L	Y	453GBSA	PUMPING
MCA UNIT	401	300253897400	4/3/2009	17	32	26	F	Y	453GBSA	PUMPING

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MCA UNIT	402	300253885500	8/29/2008	17	32	26	L	Y	453GBSA	PUMPING
MCA UNIT	404	300253897500	3/24/2009	17	32	26	M	Y	453GBSA	INJECTION
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MCA UNIT	410	300253897900	12/10/2008	17	32	28	O	Y	453GBSA	PUMPING
MCA UNIT	411	300253885600	11/2/2008	17	32	33	C	Y	453GBSA	P&A
MCA UNIT	412	300253898000	12/1/2008	17	32	33	B	Y	453GBSA	P&A
MCA UNIT	413	300253898100	2/18/2009	17	32	34	B	Y	453GBSA	PUMPING
MCA UNIT	414	300253898200	2/13/2009	17	32	27	O	Y	453GBSA	INJECTION
MCA UNIT	415	300253898300	2/10/2009	17	32	27	N	Y	453GBSA	PUMPING
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MCA UNIT	417	300253898500	2/28/2009	17	32	27	M	Y	453GBSA	PUMPING
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MCA UNIT	457	300253931400	6/5/2009	17	32	26	F	Y	453GBSA	PUMPING
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MCA UNIT	472	300253940900	10/12/2010	17	32	27	E	Y	453GBSA	INJECTION
MCA UNIT	473	300253941000	2/27/2013	17	32	27	F	Y	453GBSA	PUMPING
MCA UNIT	474	300253932000	6/12/2009	17	32	27	I	Y	453GBSA	PUMPING
MCA UNIT	475	300253934900	4/29/2009	17	32	27	I	Y	453GBSA	INJECTION

MCA UNIT	476	300253935000	10/22/2010	17	32	27	J	Y	453GBSA	PUMPING
MCA UNIT	477	300253943100	3/14/2013	17	32	27	K	Y	453GBSA	INJECTION
MCA UNIT	478	300253935100	6/13/2009	17	32	27	O	Y	453GBSA	INJECTION
MCA UNIT	479	300253935200	8/5/2009	17	32	28	N	Y	453GBSA	PUMPING
MCA UNIT	480	300253976600	10/4/2010	17	32	28	O	Y	453GBSA	INJECTION
MCA UNIT	481	300253940200	8/13/2009	17	32	28	M	Y	453GBSA	INJECTION
MCA UNIT	482	300253976700	9/28/2010	17	32	28	K	Y	453GBSA	PUMPING
MCA UNIT	483	300253935300	6/25/2009	17	32	28	I	Y	453GBSA	INJECTION
MCA UNIT	484	300253935400	7/28/2009	17	32	28	K	Y	453GBSA	PUMPING
MCA UNIT	485	300253940300	8/15/2009	17	32	28	K	Y	453GBSA	INJECTION
MCA UNIT	486	300253935500	7/18/2009	17	32	28	I	Y	453GBSA	INJECTION
MCA UNIT	487	300253935600	7/21/2009	17	32	28	J	Y	453GBSA	PUMPING
MCA UNIT	488	300254139300	10/25/2013	17	32	23	M	Y	453GBSA	PUMPING
MCA UNIT	489	300253943200	8/22/2009	17	32	33	A	Y	453GBSA	INJECTION
MCA UNIT	490	300253932100	7/15/2009	17	32	33	B	Y	453GBSA	P&A
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MCA UNIT	492	300253943300	8/29/2009	17	32	33	G	Y	453GBSA	P&A
MCA UNIT	365Y	300252910200	5/30/1985	17	32	29	B	Y	453GBSA	PUMPING
MCA UNIT	507	300254139500	11/30/2013	17	32	22	O	Y	453GBSA	INJECTION
MCA UNIT	508	300254139400	12/8/2013	17	32	22	P	Y	453GBSA	PUMPING
MCA UNIT	510	300254139600	11/23/2013	17	32	22	I	Y	453GBSA	INJECTION
MCA UNIT	511	300254139700	11/13/2013	17	32	22	P	Y	453GBSA	PUMPING
MCA UNIT	512	300254139800	10/8/2013	17	32	27	K	Y	453GBSA	PUMPING
MCA UNIT	513	300254139900	10/13/2013	17	32	27	J	Y	453GBSA	INJECTION
MCA UNIT	514	300254140000	10/19/2013	17	32	27	P	Y	453GBSA	PUMPING

Production Graphs:

See Attachments

Map of structural and geologic interpretations:

See Attachments

Map of Participating area boundaries:

See Attachments

Map of Wells, flow-lines, and roads:

See Attachments

The MCA Unit is comprised of one participating area, as set forth in the table below. A map of the participating area and a reservoir performance graph for the participating area are attached.

MCA	Grayburg-San Andres PA	7/1/1962	NMNM-070987X
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The working interest owners have been provided a copy of this 2018 Plan of Development. ConocoPhillips Company and the working interest owners believe that all current MCA Unit obligations have been satisfied.

In accordance with Article 10 of the Maljamar Cooperative Agreement (MCA) Unit Agreement, please signify your approval of the 2018 Plan of Development by executing in the signature block below. Please return one approved copy to the undersigned.

Should you have any questions or comments in this regard, please contact me at 281-206-5651.

Bureau of Land Management

Date

New Mexico State Land Office

Date

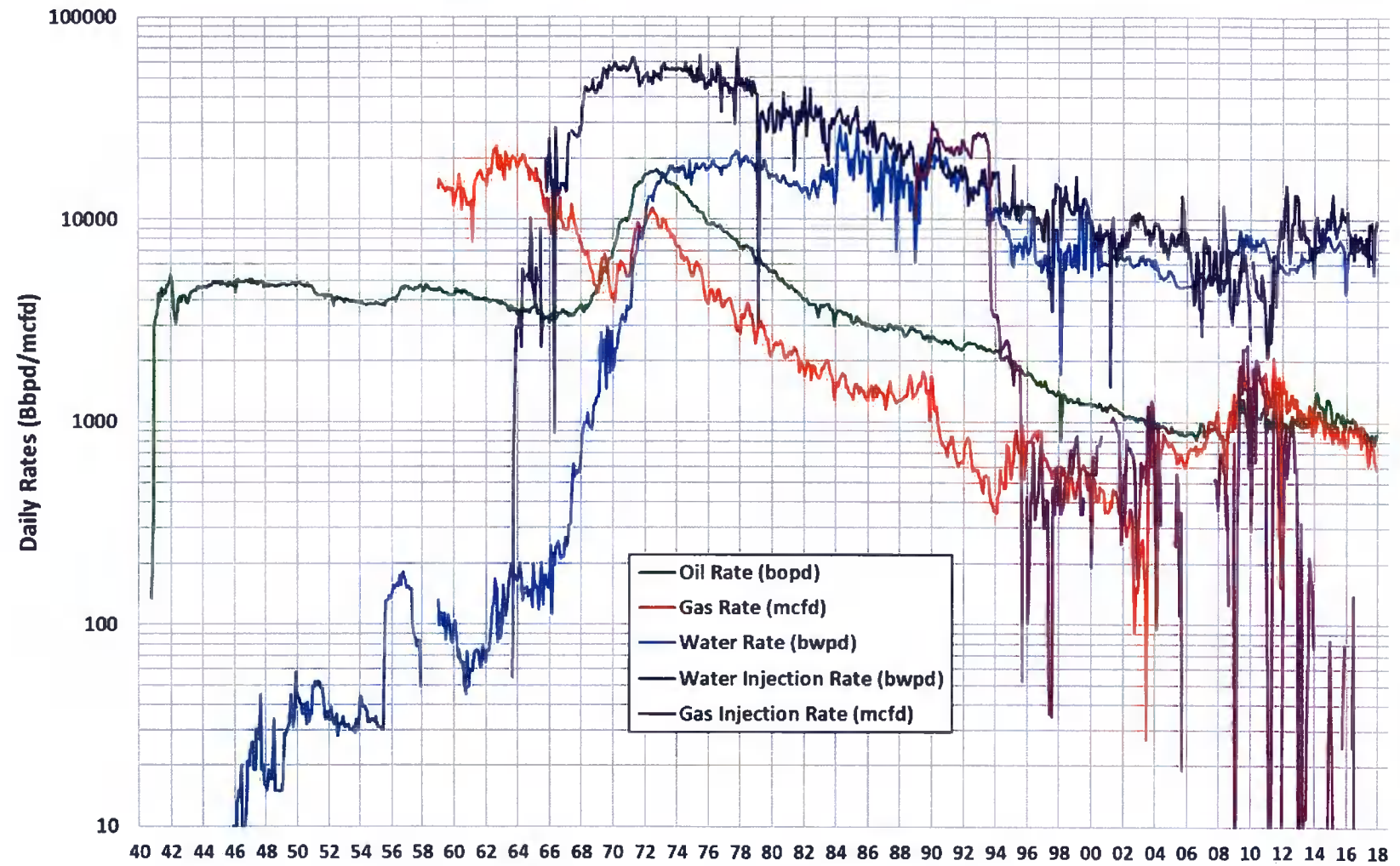
New Mexico Oil Conservation Division

Date

The foregoing approvals are for the 2018 Plan of Development for the Maljamar Cooperative Agreement (MCA) Unit, I SEC- No. 341, Lea County, New Mexico.

Cc: Occidental Permian Joint Interest
Attn: Laura Drum
P.O. Box 4294
Houston, TX 77210-4294

MCA Production and Injection History






ConocoPhillips.

MCA Structural and Geologic

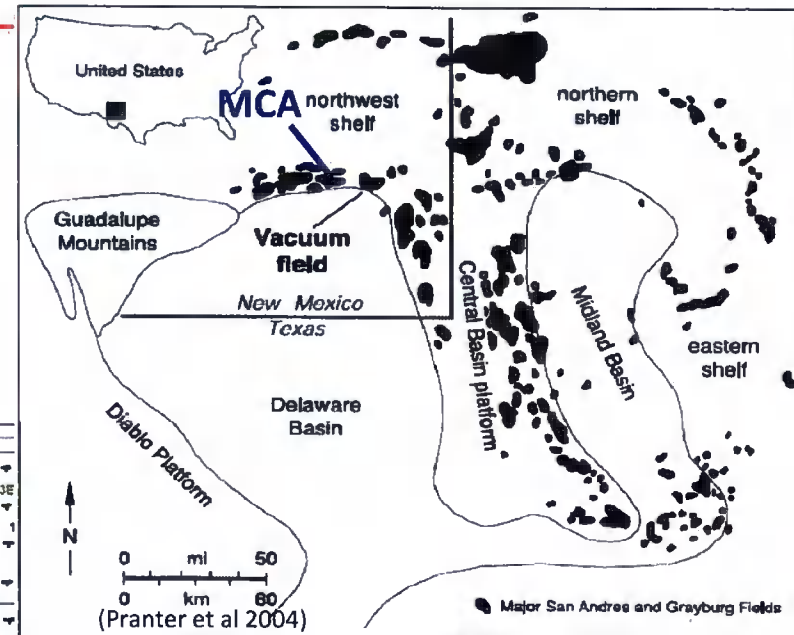
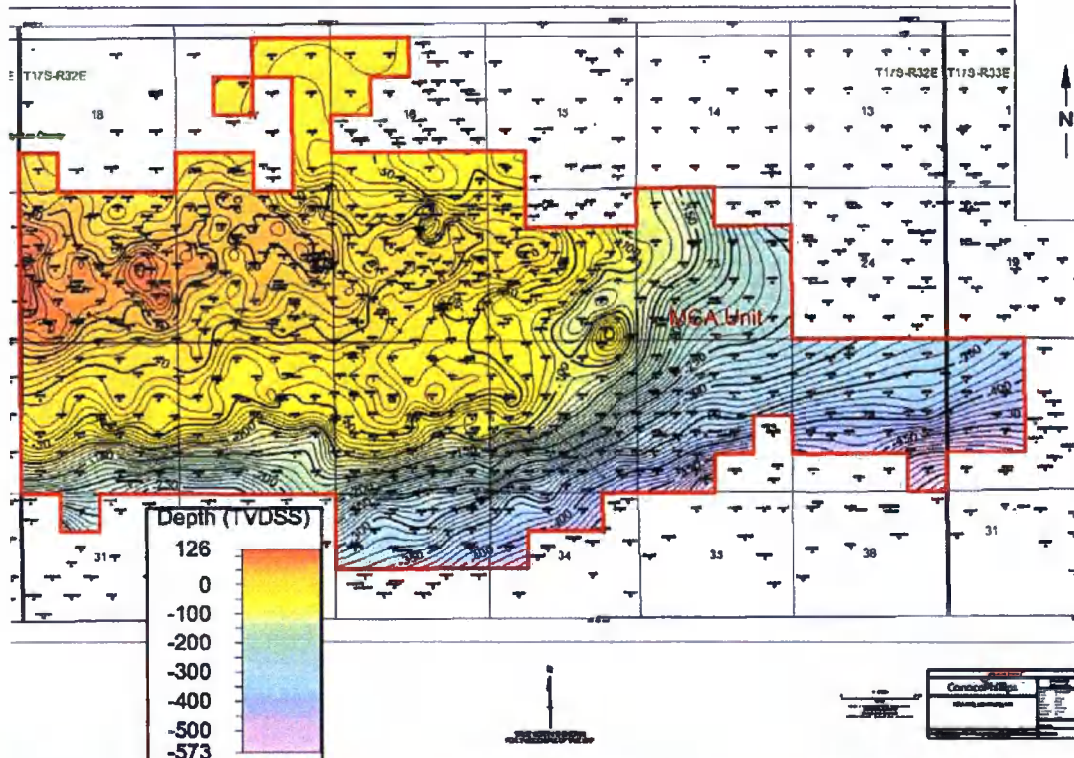
2018 POD

MCA Field Overview

Discovered in 1926

NW Shelf Grayburg/San Andres field

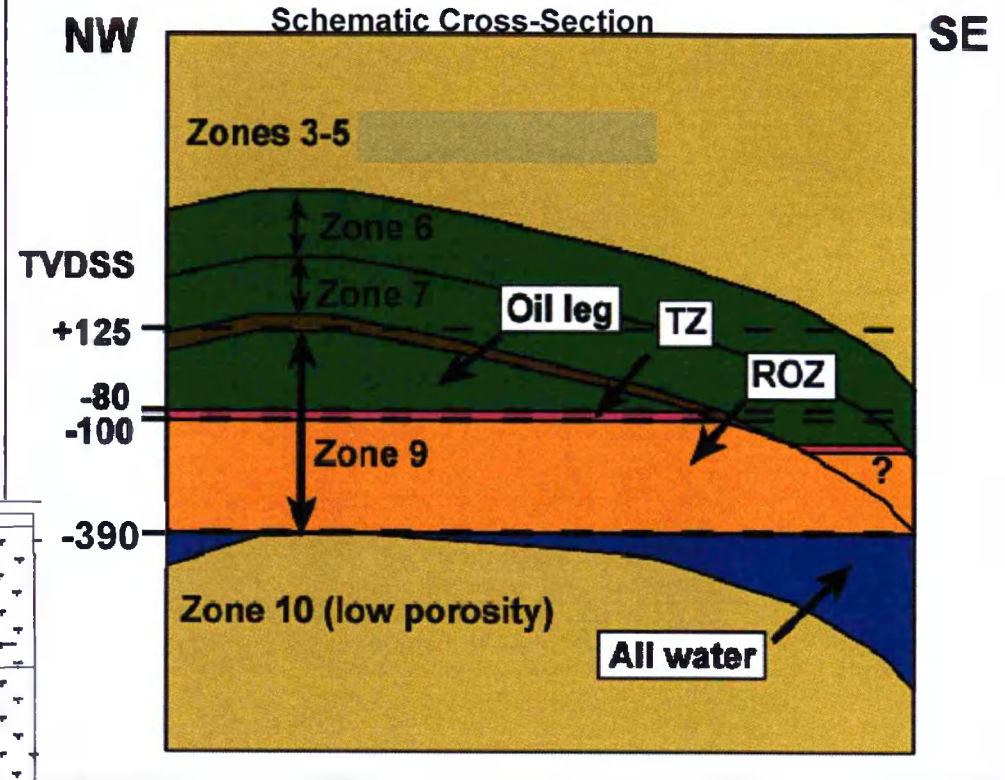
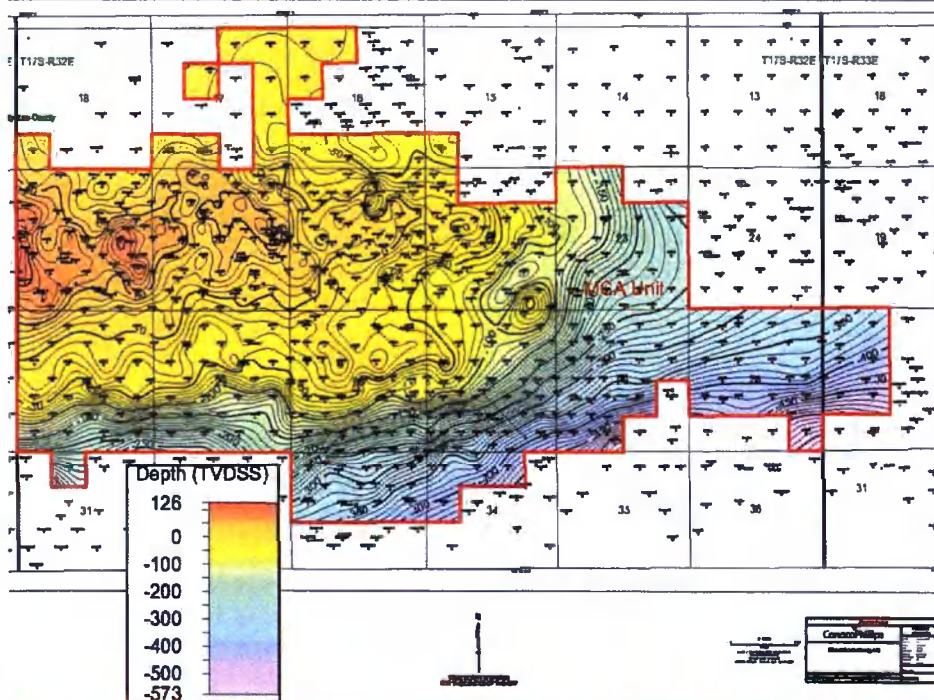
East-southeast dipping structure



Reservoir Distribution

• Main Pay:

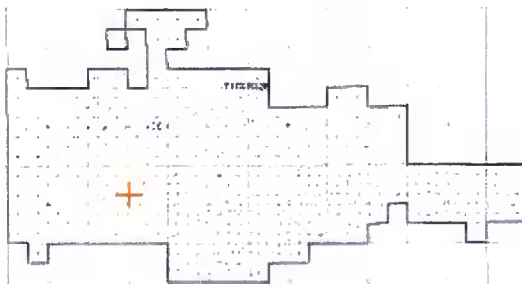
- Premier Sand (Z6) – unit-wide
- Upper San Andres (Z7) – most of unit
- Lower San Andres (Z9) – higher parts of structure



Stratigraphy & Reservoir Characteristics

MCA 365Y

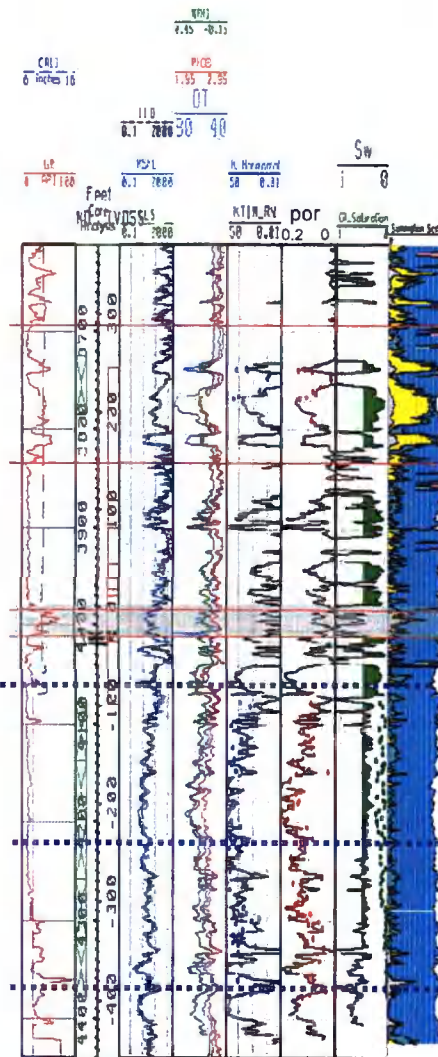
- Producing intervals:
 - Grayburg Premier Sand (Z6)
 - Upper and Lower San Andres (Z7&Z9)
- Lovington is a baffle (if not barrier) between Upper and Lower San Andres
- Residual Oil Zone present in Lower San Andres (Z9)
 - Current producing OWC: -80'-100' TVDSS
 - Estimated original OWC: -240 to -390' TVDSS
 - 140' to 310' of transition zone and residual oil zone thickness



-80' TVDSS

-240' TVDSS

-390' TVDSS



- Grayburg:** arkosic anhydritic sandstone
 - Eolian-tidal flat-shallow marine
 - K-feldspar (5-30%) results in variable GR
 - Porosity: 11% avg; 22% max
 - Air Permeability: 8mD avg; 264mD max

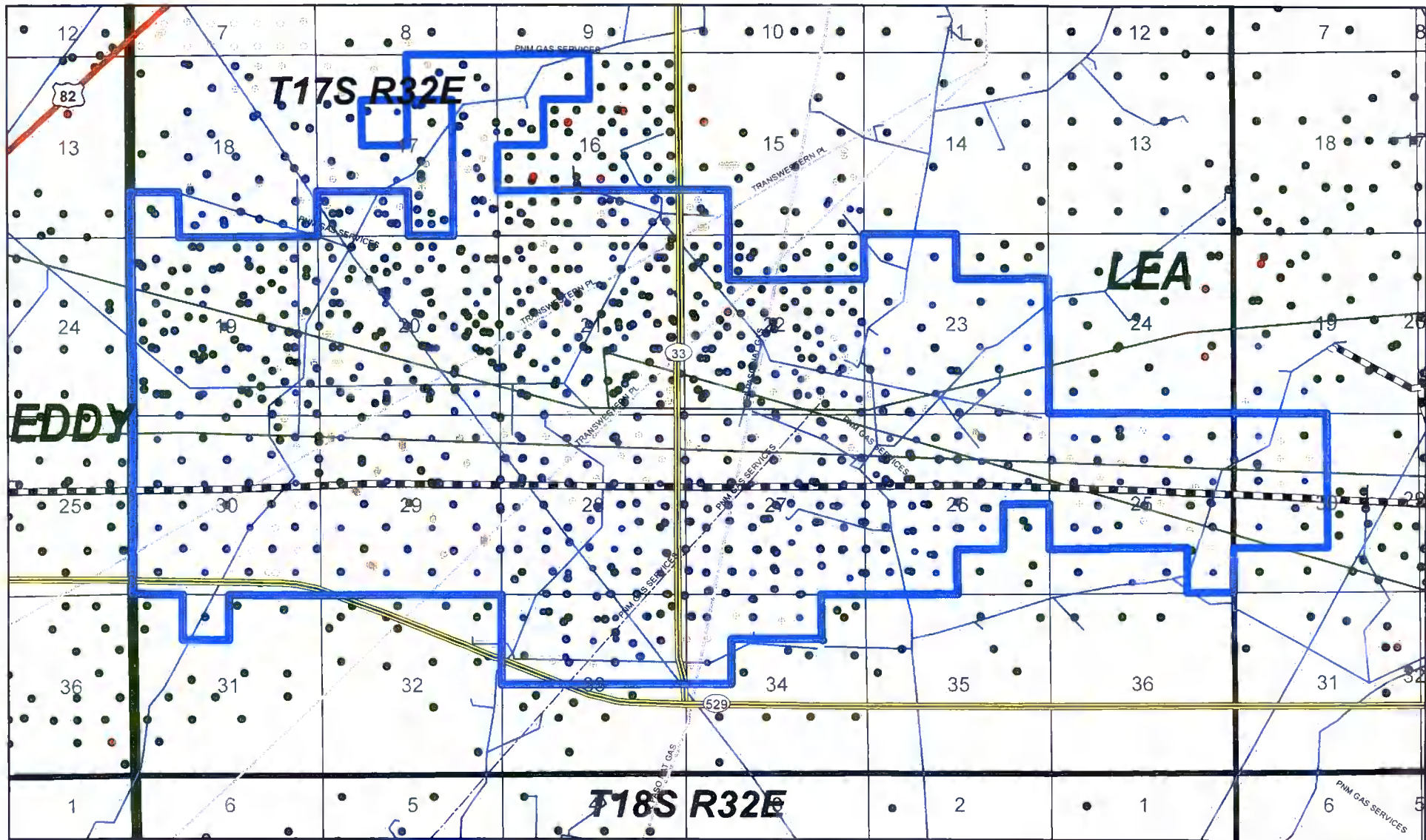
- San Andres:** dolograstone/dolopackstone
 - Intertidal/subtidal platform marine
 - Significant paleo-karst features mark top
 - Porosity: 9% avg; 20% max
 - Air Permeability: 16mD avg; 628mD max

Grayburg-Premier Sand (Z6)

Upper
San Andres (Z7)

Lovington (Z8)
Lower
San Andres (Z9)

Residual Oil Zone



L48 Pipelines Natural Gas IHS

DIAMETER	
—	16, 18
—	20, 22
—	24, 26, 27, 29
—	30, 32, 34, 36
—	42, 46, 48
—	11, 12, 13, 14
—	Unknown

L48 Pplns Pennwell Oil

CMDTY	
—	C
—	L

MCA_Unit_Boundary_C101614_20150218

—	Working
—	Completed
—	Ready To Implement
—	Minor Road
—	Major Road
—	Highway
—	COP Pipelines
—	Proposal
—	Prospect
—	Schedule

P2000 PROD OIL & GAS

●	CRUDE OIL
●	GAS



ConocoPhillips

Mid-Continent Land

Southeast New Mexico

MCA Unit

Author:	Date: 2/26/15
Compiled by:	Sheet: 1 of 1,000
Project File:	
Unit:	