

DEC 02 2014

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

RECEIVED

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-42294	Pool Code 37570	Pool Name Lea; Bone Spring
Property Code 313919	Property Name BLACK PEARL 1 FEDERAL	Well Number 3H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3695.4

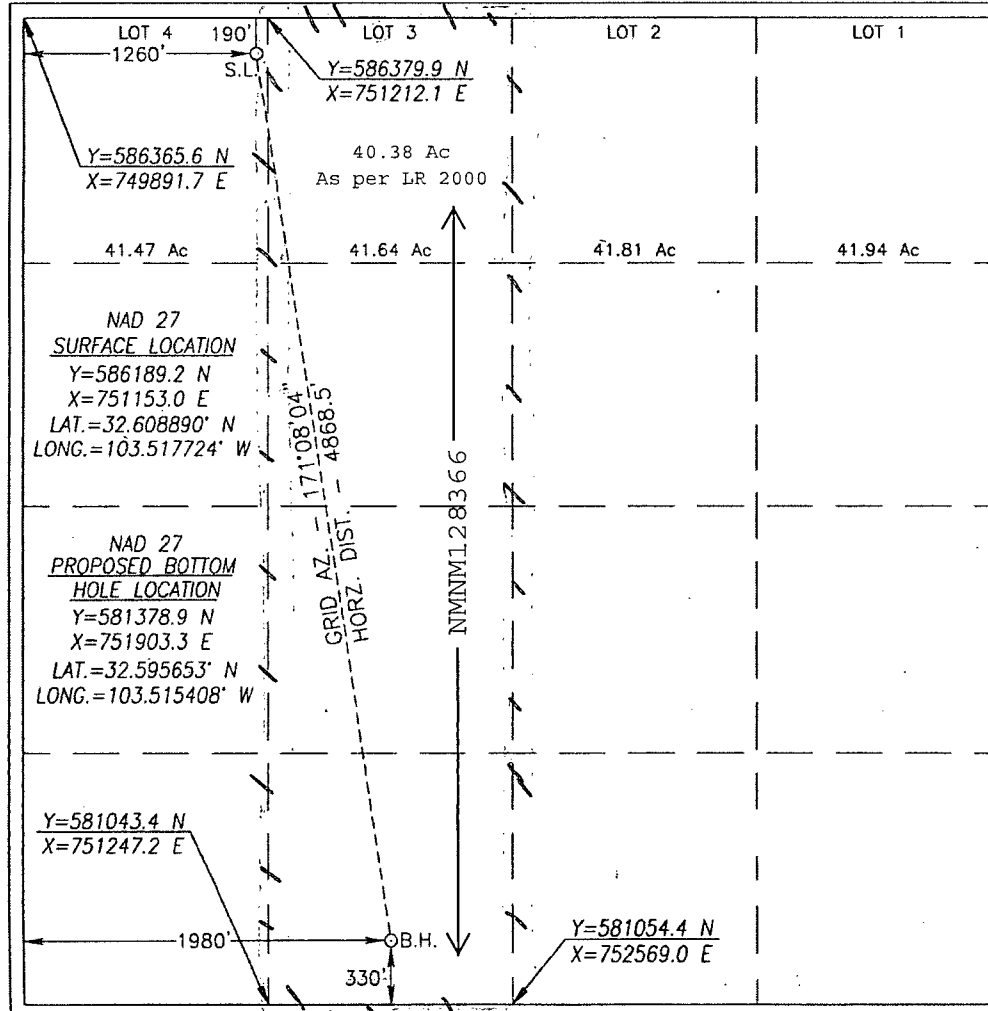
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	1	20-S	34-E		190	NORTH	1260	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	1	20-S	34-E		330	SOUTH	1980	WEST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
160.38									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Melanie J Parker 5/14/14
Signature Date

Melanie J Parker

Printed Name

mparker@concho.com

E-mail Address

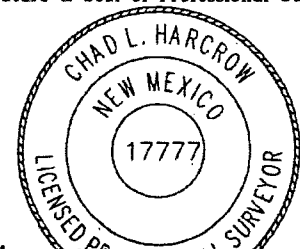
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 31, 2014

Date of Survey

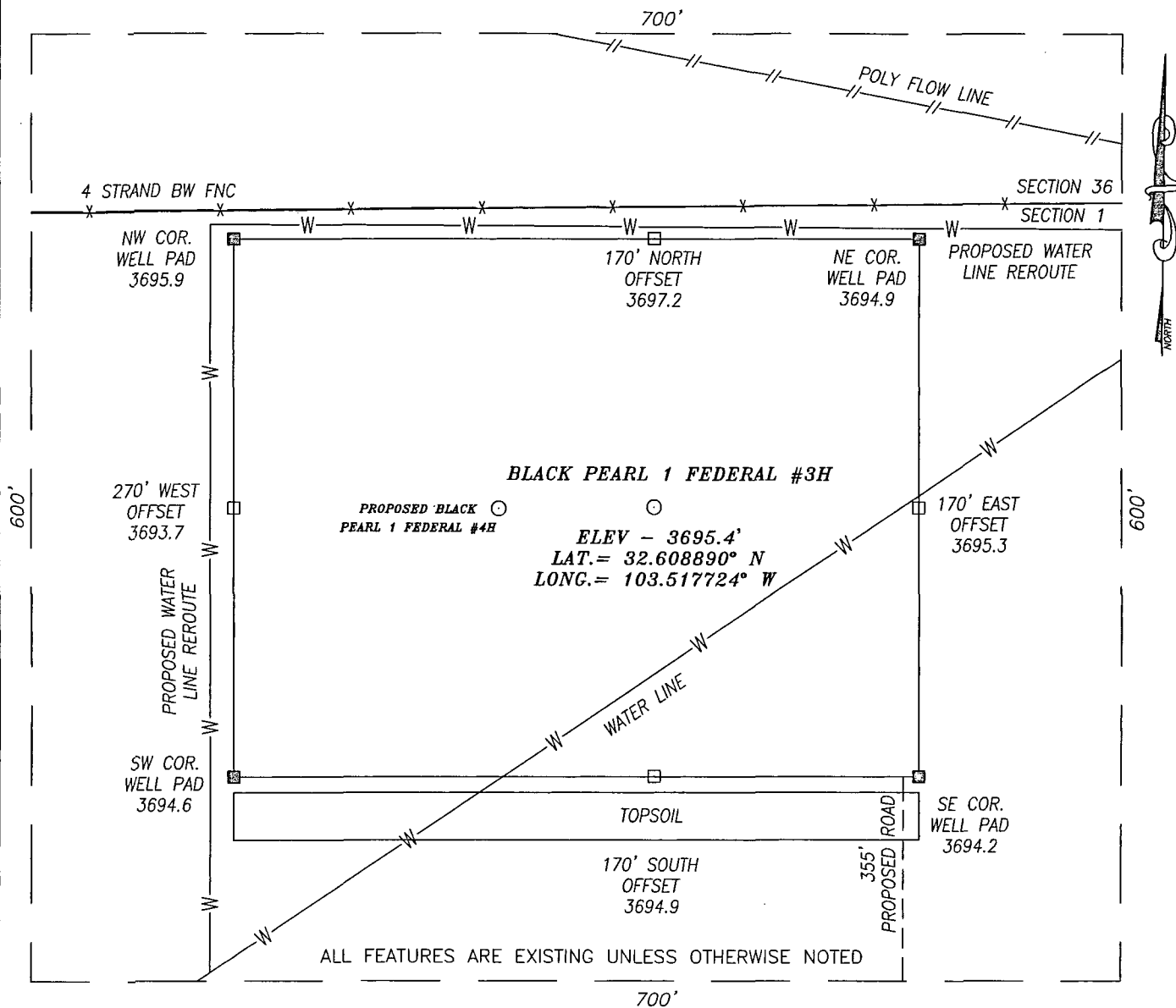
Signature & Seal of Professional Surveyor



Chad L. Harcrow 4/15/14
Certificate No. CHAD HARCROW 17777
W.O. # 14-248 DRAWN BY: AM

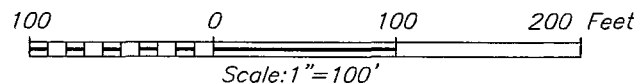
DEC 03 2014

SECTION 1, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR #27 (MARATHON RD) AND HWY 62/180 GO APPROX. 1.9 MILES SOUTH ALONG MARATHON ROAD; THEN TURN RIGHT (WEST) AND GO APPROX. 285 FEET; THEN PROPOSED WELL IS APPROX. 555 FEET NORTHWEST.



HARCROW SURVEYING, LLC

2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 513-2570 FAX: (575) 746-2158
chad_harcrow77@yahoo.com



COG OPERATING, LLC

BLACK PEARL 1 FEDERAL #3H WELL
LOCATED 190 FEET FROM THE NORTH LINE
AND 1260 FEET FROM THE WEST LINE OF SECTION 1,
TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: 3/31/2014

PAGE: 1 OF 1

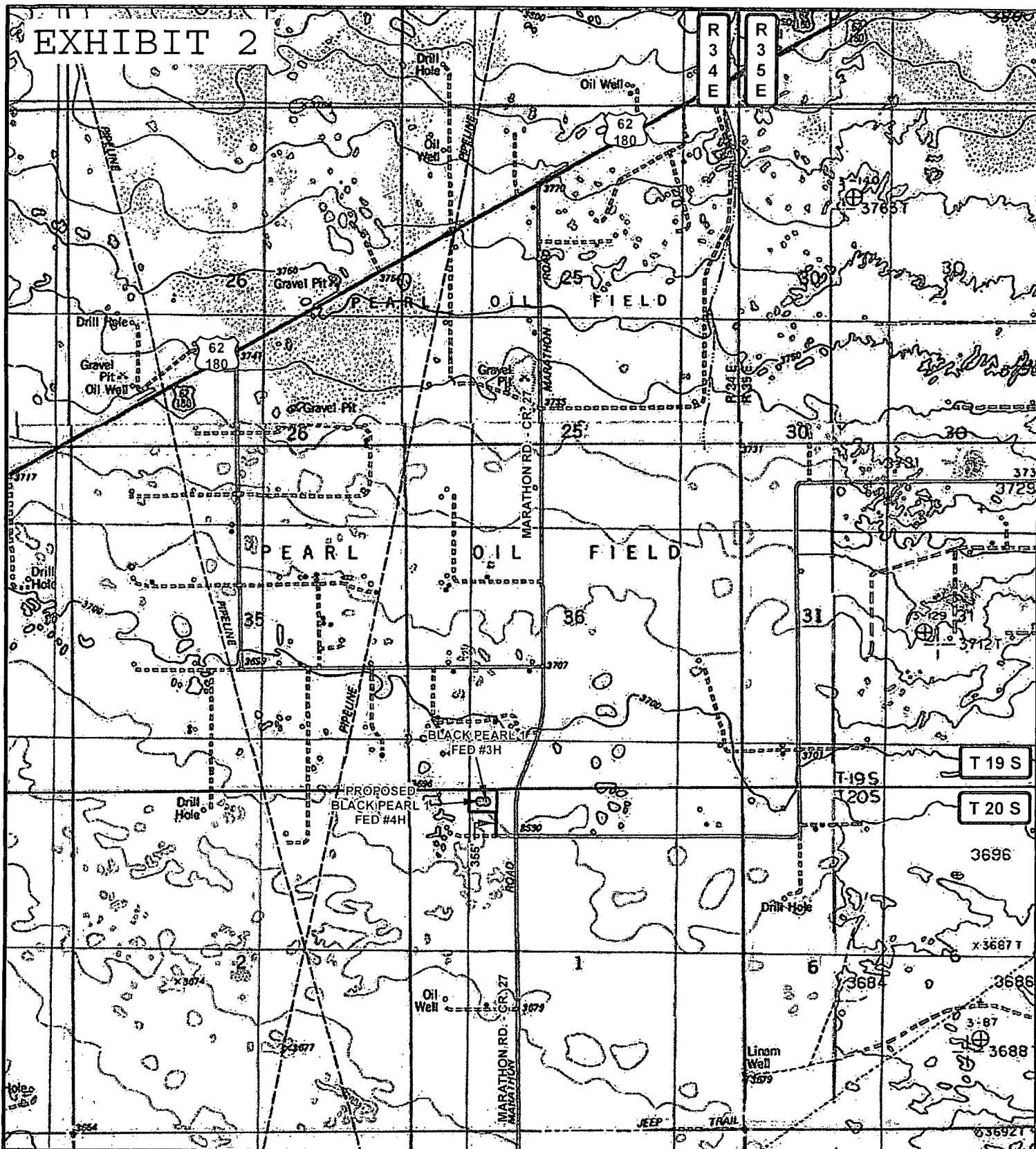
DRAFTING DATE: 4/8/2014

APPROVED BY: CH

DRAWN BY: AM

FILE: 14-248

EXHIBIT 2



LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #3H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3695.4'
 STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1260' FWL
 W.O. # 14-248 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.125 0.25 0.5 Miles

1 IN = 2,000 FT

LOCATION MAP

TORO

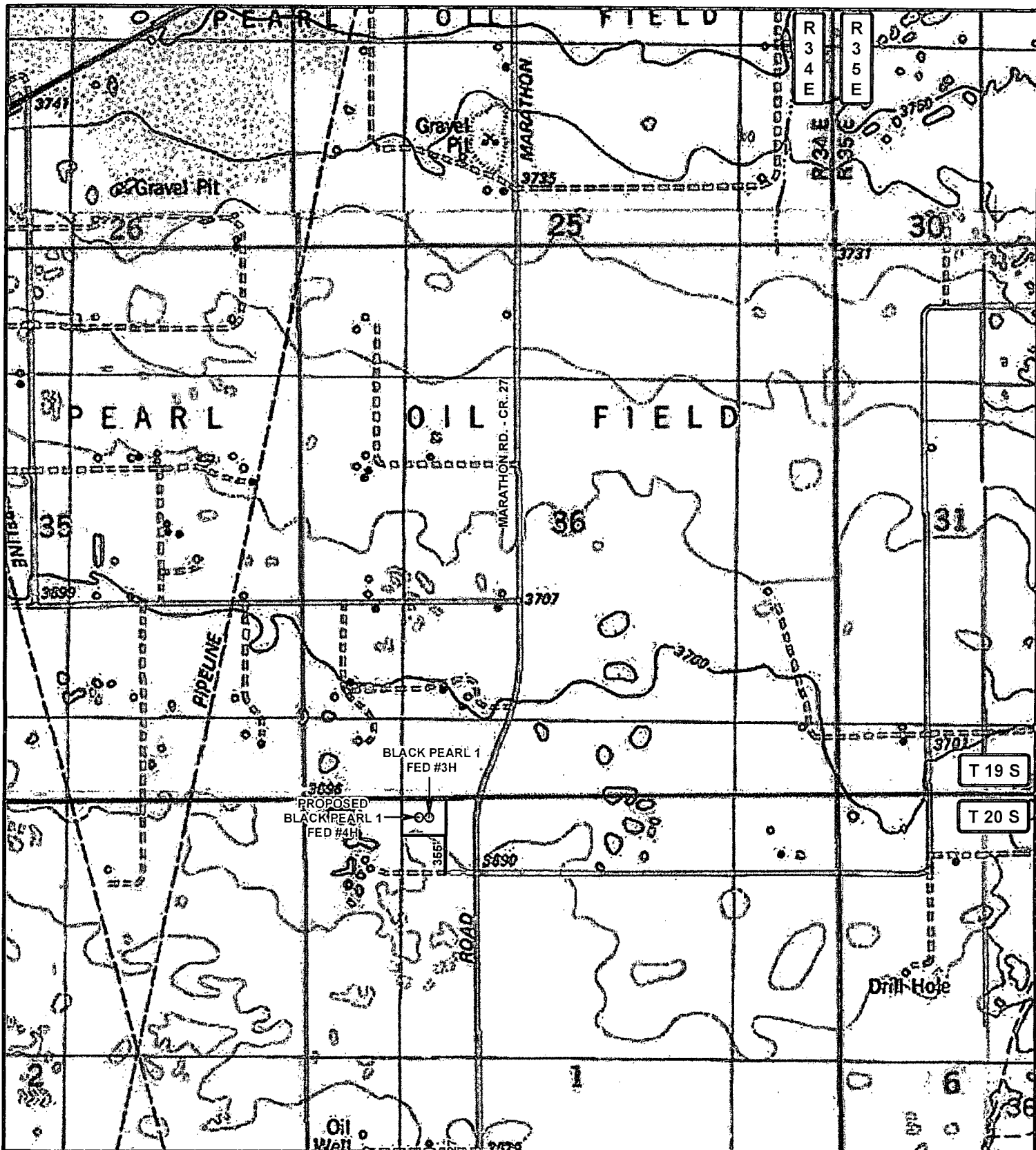
04/09/2014

S.D.

CONCHO
 COG OPERATING, LLC

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 1107 WATSON, ARTESIA N.M. 88210
 PH: (575) 513-2570 FAX: (575) 746-2158
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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #3H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3695.4'
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 W.O. # 14-248 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M

0 2,500 FEET

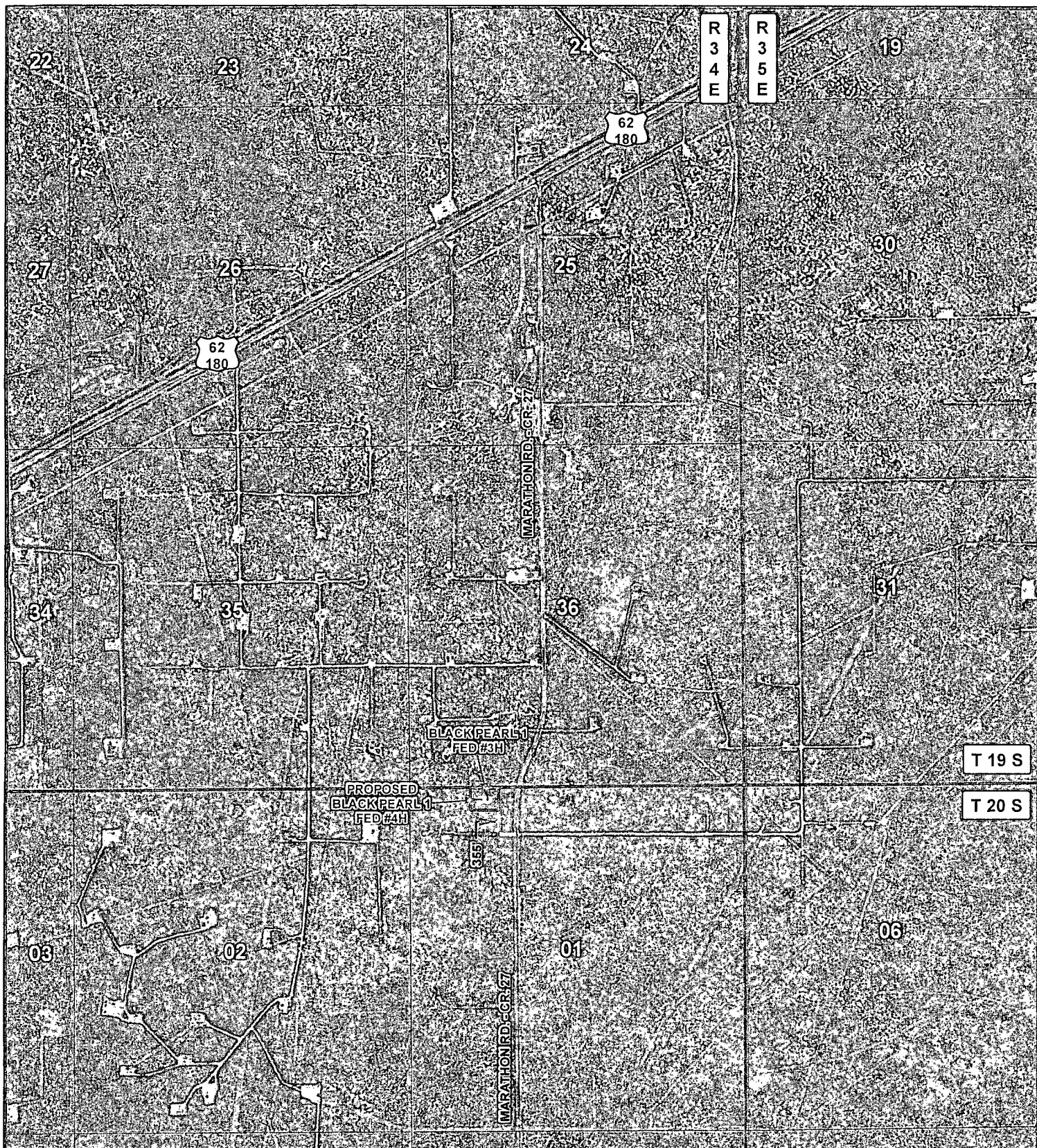
0 0.075 0.15 0.3 Miles

1 IN = 1,250 FT

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LEGEND

○ WELL

□ WELLPAD

— EXISTING ROAD

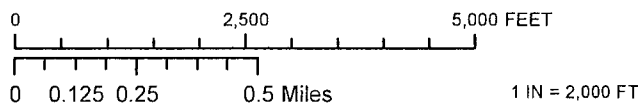
— PROPOSED ROAD

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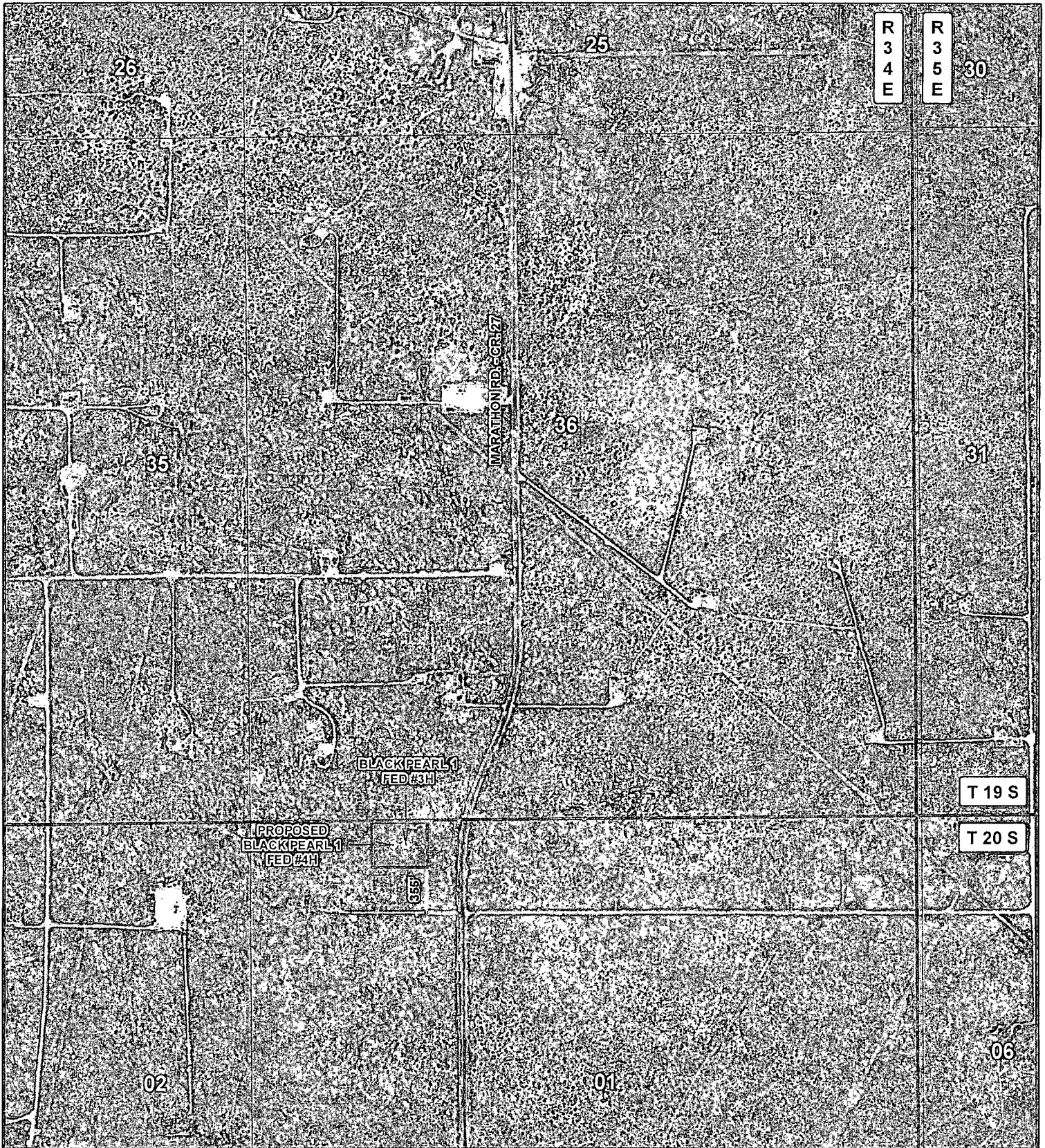


LOCATION MAP IMAGERY 01/09/2014

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LEGEND

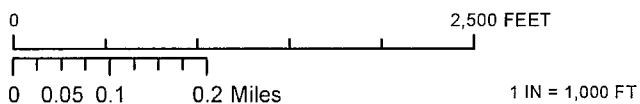
- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #3H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3695.4'

STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1260' FWL

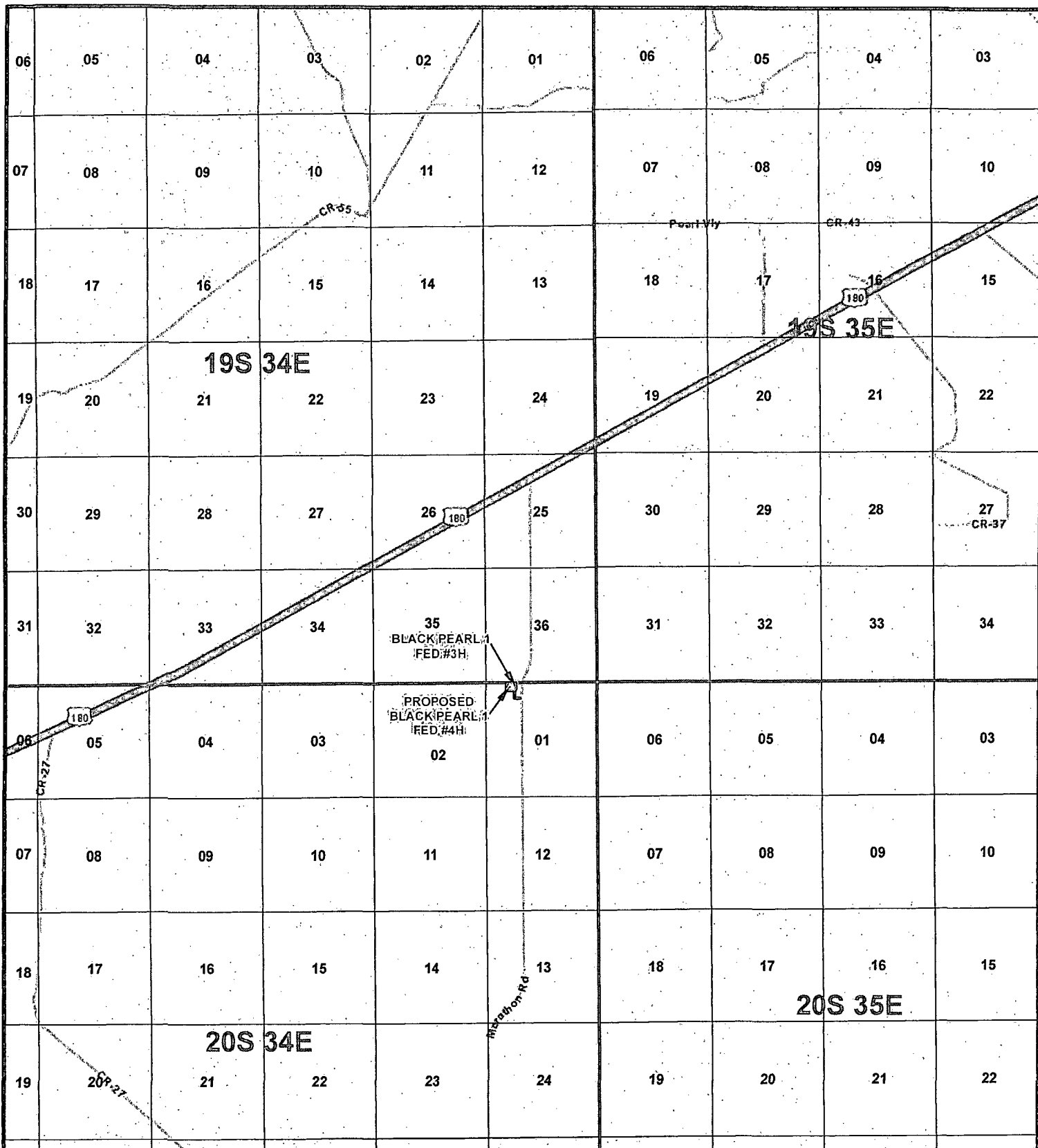
W.O. # 14-248 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M



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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #3H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3695.4'

STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1260' FWL

W.O. # 14-248 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M

0 2,500 5,000 7,500 10,000 12,500 15,000 FEET

0 0.4 0.8 1.6 Miles 1 IN = 6,000 FT

VICINITY MAP

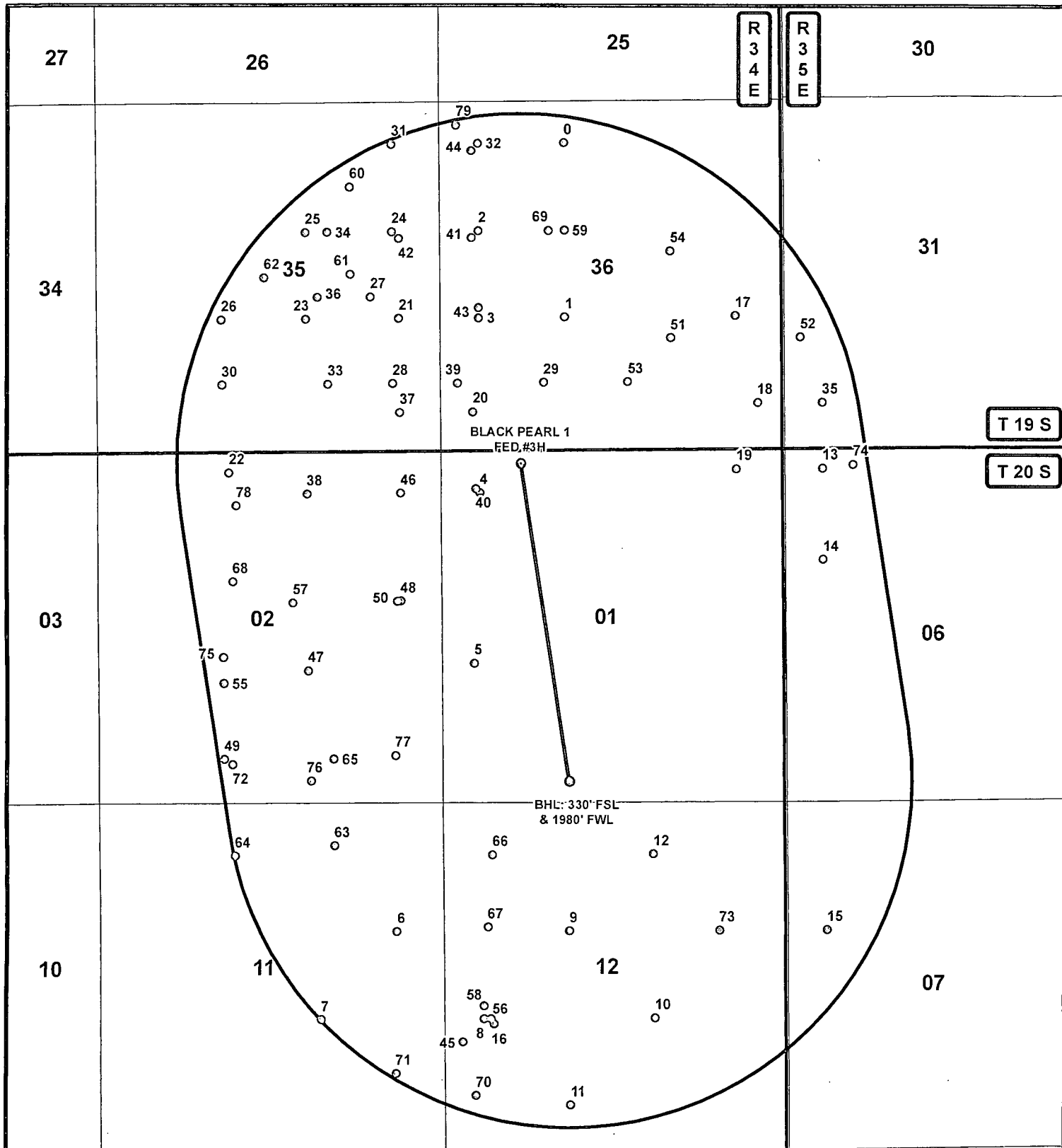
04/09/2014

S.P.

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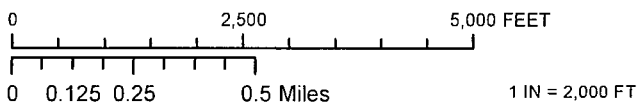
DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH MARCH 9, 2014.

LEGEND

- WELL
- BOTTOMHOLE
- WELLS WITHIN 1 MI.
- 1 MI. BUFFER

BLACK PEARL 1 FED #3H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3695.4'
 STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1260' FWL
 W.O. # 14-248 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M



1 MILE MAP

04/09/2014

S.D.

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FID	OPERATOR	WELL_NAME	LATITUDE	LONGITUDE	API	SECTION	TOWNSHIP	RANGE	FTG_NS	NS_CD	FTG_EW	EW_CD	TVD_DEPTH	COMPL_STAT
0	CABEEN EXPLORATION	GULF C STATE 002	32.622328	-103.515987	3002502403	36	19.0S	34E	660 N		1980 W		5051	Plugged
1	MACK ENERGY CORP	HADSON STATE 001	32.615069	-103.515982	3002502404	36	19.0S	34E	1980 S		1980 W		5060	Plugged
2	B2J, L.L.C.	SARAH SUE 001	32.618689	-103.520292	3002502405	36	19.0S	34E	1980 N		660 W		5050	TA
3	XERIC OIL & GAS CORP	LEA K STATE 001	32.615058	-103.52029	3002502406	36	19.0S	34E	1980 S		660 W		4980	Plugged
4	CACTUS DRILLING CORP OF TEXAS	TEXACO FEDERAL 001	32.607802	-103.520285	3002502407	1	20.0S	34E	660 N		660 W		5003	Plugged
5	ARMSTRONG ENERGY CORP	K F QUAIL FEDERAL 001	32.600686	-103.52062	3002502408	1	20.0S	34E	2086 S		556 W		13745	Plugged
6	LEGACY RESERVES OPERATING, LP	LEA UNIT 004	32.589514	-103.524565	3002502424	11	20.0S	34E	1980 N		660 E		15346	Active
7	LEGACY RESERVES OPERATING, LP	LEA UNIT 006	32.585869	-103.528371	3002502425	11	20.0S	34E	1980 S		1830 E		14472	Active
8	MARATHON OIL CO	LEA UNIT 001	32.585861	-103.520248	3002502427	12	20.0S	34E	1980 S		660 W		4137	Plugged
9	LEGACY RESERVES OPERATING, LP	LEA UNIT 002	32.589507	-103.515953	3002502428	12	20.0S	34E	1980 N		1980 W		14501	Active
10	LEGACY RESERVES OPERATING, LP	LEA UNIT 005	32.58586	-103.511683	3002502429	12	20.0S	34E	1980 S		1980 E		14476	Active
11	LEGACY RESERVES OPERATING, LP	LEA UNIT 007	32.582232	-103.51593	3002502430	12	20.0S	34E	660 S		1980 W		14540	Active
12	LEGACY RESERVES OPERATING, LP	LEA UNIT 008	32.592721	-103.511703	3002502431	12	20.0S	34E	810 N		1980 E		14693	Active
13	TANDEM ENERGY CORPORATION	CACTUS FEDERAL 003	32.608743	-103.503136	3002503335	6	20.0S	35E	330 N		660 W		5030	Active
14	CACTUS DRILLING CORP OF TEXAS	FEATHERSTONE FEDERAL 004	32.604944	-103.503125	3002503336	6	20.0S	35E	1712 N		660 W		5100	Plugged
15	SINCLAIR OIL & GAS COMPANY	LEA FEDERAL 001	32.58951	-103.503081	3002503337	7	20.0S	35E	1980 N		660 W		14947	Plugged
16	MARATHON OIL CO	LEA UNIT 001	32.585655	-103.519758	3002512789	12	20.0S	34E	1905 S		810 W		4137	Plugged
17	TANDEM ENERGY CORPORATION	PURE STATE 002	32.61509	-103.507448	3002520078	36	19.0S	34E	1980 S		660 E		5026	Active
18	TANDEM ENERGY CORPORATION	PURE STATE 001	32.611464	-103.50637	3002520096	36	19.0S	34E	660 S		330 E		4890	Active
19	TANDEM ENERGY CORPORATION	TEXACO FEDERAL 002	32.60874	-103.507443	3002520189	1	20.0S	34E	330 N		660 E		5000	Plugged
20	TIPTON & DENTON	PURE STATE 001	32.611154	-103.520613	3002520291	36	19.0S	34E	560 S		560 W		5170	Active
21	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 351	32.615048	-103.524271	3002520302	35	19.0S	34E	1980 S		560 E		5152	Active
22	JOSEPH P DRISCOLL	PURE A STATE 001	32.608678	-103.5328	3002520332	2	20.0S	34E	330 N		2080 W		5278	Plugged
23	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 352	32.615037	-103.528905	3002520565	35	19.0S	34E	1980 S		1980 E		5268	Plugged
24	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 353	32.618677	-103.5246	3002520691	35	19.0S	34E	1980 N		660 E		5435	Active
25	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 354	32.618664	-103.528908	3002520692	35	19.0S	34E	1980 N		1980 E		5260	Active
26	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 358	32.615027	-103.533128	3002520695	35	19.0S	34E	1980 S		1980 W		5232	Active
27	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT 359	32.615952	-103.525675	3002521264	35	19.0S	34E	2310 S		990 E		4023	Plugged
28	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE UNIT 010	32.612326	-103.524595	3002521265	35	19.0S	34E	990 S		660 E		5180	Plugged
29	TANDEM ENERGY CORPORATION	MINERALS STATE 001	32.612345	-103.517057	3002521281	36	19.0S	34E	990 S		1650 W		5327	Active
30	MERIT ENERGY COMPANY, LLC	MESCALERO RIDGE UNIT 011	32.612305	-103.533127	3002521464	35	19.0S	34E	990 S		1980 W		5110	Plugged
31	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 015	32.622306	-103.524602	3002521683	35	19.0S	34E	660 N		660 E		5135	Active
32	B2J, L.L.C.	SARAH SUE 003	32.622317	-103.520295	3002521756	36	19.0S	34E	660 N		660 W		5138	Active
33	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 016	32.612318	-103.527826	3002521858	35	19.0S	34E	990 S		1650 E		5150	Active
34	BP AMERICA PRODUCTION COMPANY	MESCALERO RIDGE UNIT 017	32.618668	-103.527831	3002521859	35	19.0S	34E	1980 N		1650 E		4040	Plugged
35	BTA OIL PRODUCERS, LLC	PEARL 692 LTD 001	32.611464	-103.503139	3002523098	31	19.0S	35E	660 S		660 W		5025	TA
36	PENNZENERGY EXPLORATION AND PRODUCTION LLC	MESCALERO RIDGE UNIT 002	32.615945	-103.528318	3002523319	35	19.0S	34E	2310 S		1800 E		13980	Plugged
37	CIMAREX ENERGY CO. OF COLORADO	MESCALERO RIDGE UNIT 003	32.611129	-103.524249	3002523503	35	19.0S	34E	554 S		554 E		5990	Plugged
38	PENNZENERGY EXPLORATION AND PRODUCTION LLC	MONSANTO STATE 001	32.60778	-103.528899	3002523520	2	20.0S	34E	660 N		1980 E		10880	Plugged
39	TIPTON & DENTON	DELAWARE STATE 001	32.612334	-103.521365	3002523550	36	19.0S	34E	990 S		330 W		10225	Active
40	ARMSTRONG ENERGY CORP	K F QUAIL FEDERAL 002	32.607966	-103.520481	3002523601	1	20.0S	34E	600 N		600 W		9800	Plugged
41	C W TRAINER	LEA DS STATE 001	32.618397	-103.520638	3002523611	36	19.0S	34E	2086 N		554 W		9744	Zone Plugged
42	PENNZENERGY EXPLORATION AND PRODUCTION LLC	MESCALERO RIDGE UNIT 004	32.618387	-103.524254	3002523629	35	19.0S	34E	2086 N		554 E		10258	Plugged
43	MACK ENERGY CORP	STATE 36 002	32.61547	-103.52029	3002523690	36	19.0S	34E	2130 S		660 W		10250	Plugged
44	GULF OIL CORP	LEA DS STATE 002	32.622014	-103.520621	3002523808	36	19.0S	34E	770 N		560 W		9770	Plugged
45	LEGACY RESERVES OPERATING, LP	LEA UNIT SWD 002	32.584885	-103.521321	3002528528	12	20.0S	34E	1625 S		330 W		4611	Active
46	ARMSTRONG ENERGY CORP	WEST PEARL STATE 001	32.607792	-103.524233	3002528583	2	20.0S	34E	660 N		550 E		14840	Active
47	MERIT ENERGY COMPANY, LLC	MOBIL STATE 001	32.600405	-103.528894	3002529204	2	20.0S	34E	1980 S		1980 E		10800	Active
48	MOBIL PROD TX & NM	WEST PEARL STATE 002	32.603284	-103.524263	3002529689	2	20.0S	34E	2300 N		560 E		1649	Plugged
49	SPECTRUM 7 EXPL CO	MOBIL STATE 002	32.596783	-103.533124	3002529701	2	20.0S	34E	660 S		1980 W		6100	Plugged
50	MOBIL PROD TX & NM	WEST PEARL STATE 002Y	32.603278	-103.524426	3002529714	2	20.0S	34E	2302 N		610 E		6400	Plugged
51	TANDEM ENERGY CORPORATION	UNOCAL STATE 001	32.614175	-103.510678	3002530852	36	19.0S	34E	1650 S		1650 E		5000	Active
52	XERIC OIL & GAS CORP	FINA STATE 001	32.614187	-103.504217	3002530930	31	19.0S	35E	1650 S		330 W		5000	Plugged
53	TANDEM ENERGY CORPORATION	JAMAICA STATE 001	32.612355	-103.512831	3002531011	36	19.0S	34E	990 S		2310 E		5100	Active
54	XERIC OIL & GAS CORP	TEXAS STATE 001	32.617807	-103.51068	3002531169	36	19.0S	34E	2310 N		1650 E		5096	Plugged
55	ARMSTRONG ENERGY CORP	MOBIL LEA STATE 001	32.599917	-103.533125	3002531696	2	20.0S	34E	1800 S		1980 W		6289	Active
56	MARATHON OIL CO	LEA UNIT 015	32.585861	-103.519922	3002531788	12	20.0S	34E	1980 S		760 W		5494	Plugged

57 ARMSTRONG ENERGY CORP	WEST PEARL STATE 002	32.603243	-103.529647	3002531845	2 20.05	34E	2310 N	2210 E	6210 Active
58 LEGACY RESERVES OPERATING, LP	LEA UNIT 016	32.586411	-103.52025	3002532033	12 20.05	34E	2180 S	660 W	14407 Active
59 TRILOGY OPERATING INC	PEARL STATE 001	32.6187	-103.515985	3002532935	36 19.05	34E	1980 N	1980 W	5300 Plugged
60 LINN OPERATING, INC.	MESCALERO RIDGE UNIT 023	32.62054	-103.52669	3002533660	35 19.05	34E	1300 N	1300 E	5215 Active
61 LINN OPERATING, INC.	MESCALERO RIDGE UNIT 024	32.616912	-103.526687	3002533661	35 19.05	34E	2620 N	1300 E	5200 Active
62 LINN OPERATING, INC.	MESCALERO RIDGE UNIT 025	32.616791	-103.530995	3002534164	35 19.05	34E	2620 S	2620 E	5204 Active
63 LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT TR 018	32.593147	-103.527643	3002536904	11 20.05	34E	660 N	1600 E	13380 Active
64 SAMSON RESOURCES CO	FEDERAL 11 20 34 009	32.592742	-103.532629	3002537093	11 20.05	34E	810 N	2130 W	0 New (Not drilled or compl)
65 THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 001	32.596775	-103.527651	3002537453	2 20.05	34E	660 S	1600 E	13650 Active
66 LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT 021	32.592725	-103.51978	3002537525	12 20.05	34E	810 N	810 W	11153 Active
67 SAMSON RESOURCES CO	LEA FEDERAL UNIT 025E	32.589688	-103.520031	3002538007	12 20.05	34E	1915 N	730 W	0 New (Not drilled or compl)
68 THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 003	32.604143	-103.532637	3002538042	2 20.05	34E	1980 N	2130 W	11152 Active
69 COG OPERATING LLC	WEST PEARL 36 STATE 001	32.618698	-103.516768	3002538079	36 19.05	34E	1980 N	1740 W	13657 Active
70 LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT 024	32.582645	-103.520698	3002538212	12 20.05	34E	810 S	519 W	11125 Active
71 SAMSON RESOURCES CO	LEA FEDERAL UNIT 027P	32.583585	-103.524681	3002538290	11 20.05	34E	1151 S	701 E	0 New (Not drilled or compl)
72 THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 005	32.596563	-103.532716	3002538451	2 20.05	34E	580 S	2105 W	11150 Active
73 LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT 022	32.589503	-103.508431	3002539010	12 20.05	34E	1980 N	980 E	11495 Active
74 COG OPERATING LLC	PRICKLY PEAR 6 FEDERAL 004H	32.608906	-103.501603	3002540778	6 20.05	35E	270 N	1130 W	15540 New (Not drilled or compl)
75 THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 301	32.600989	-103.533126	3002540332	2 20.05	34E	2190 S	1980 W	0 New (Not drilled or compl)
76 THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 006H	32.59587	-103.528792	3002540330	2 20.05	34E	330 S	1950 E	15221 New (Not drilled or compl)
77 THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 007H	32.596908	-103.524584	3002540331	2 20.05	34E	710 S	660 E	0 New (Not drilled or compl)
78 THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 302	32.607304	-103.532441	3002540333	2 20.05	34E	830 N	2190 W	0 New (Not drilled or compl)
79 COG OPERATING LLC	WEST PEARL 36 STATE 002H	32.623084	-103.521372	3002540425	36 19.05	34E	380 N	330 W	15315 New (Not drilled or compl)