

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6181 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

NOBBS OCD

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

DEC 02 2014

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION

API Number 30-025- 42293	Pool Code 37570	Pool Name Lea; Bone Spring
Property Code 313919	Property Name BLACK PEARL 1 FEDERAL	Well Number 2H
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3694.3

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12	1	20-S	34-E		190	NORTH	1090	EAST	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
0	1	20-S	34-E		330	SOUTH	1980	EAST	LEA

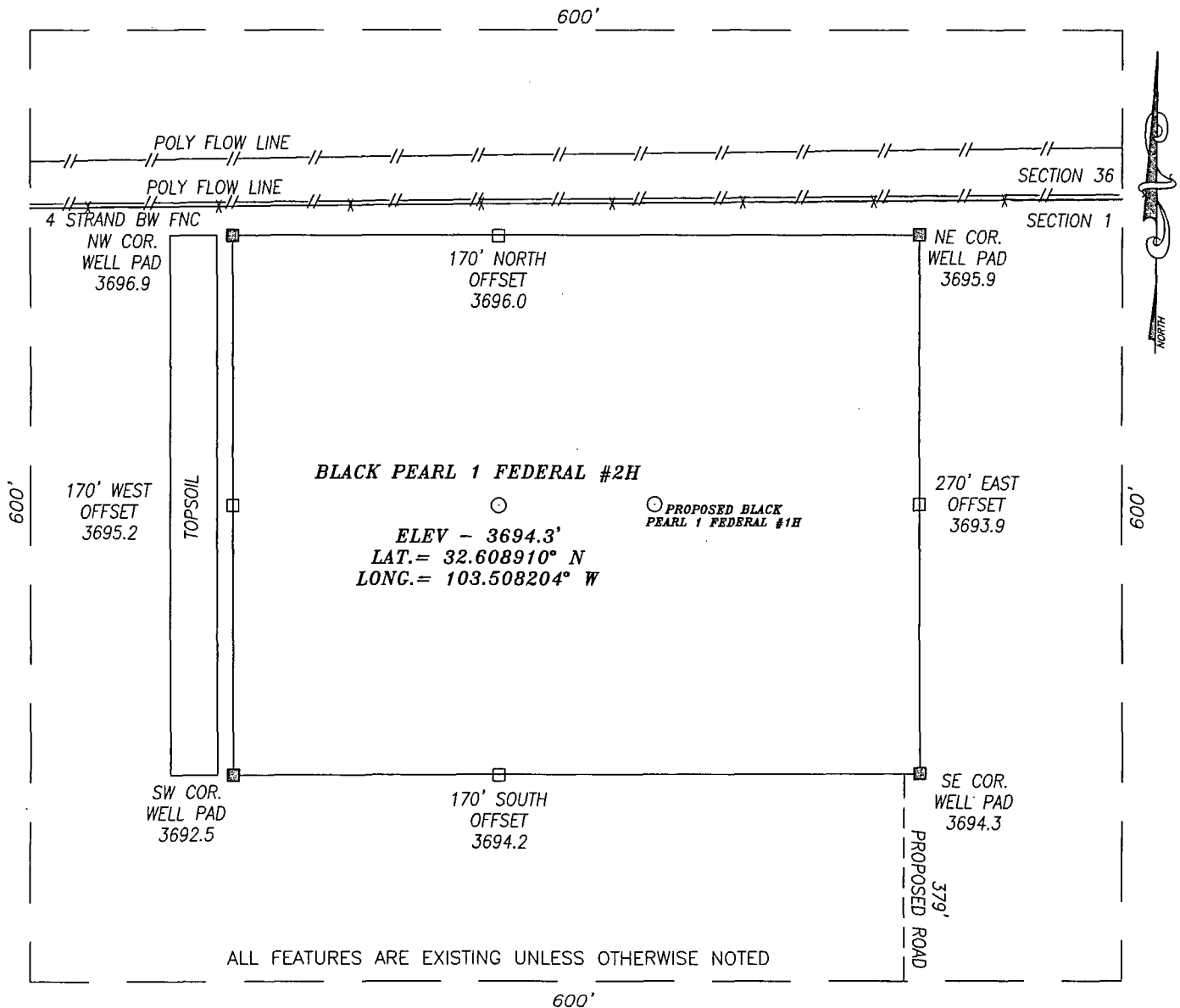
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160.66			

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

LOT 4 41.47 Ac	LOT 3 Y=586394.1 N X=752532.5 E 41.64 Ac NAD 27 SURFACE LOCATION Y=586219.0 N X=754084.8 E LAT.=32.608910° N LONG.=103.508204° W NAD 27 PROPOSED BOTTOM HOLE LOCATION Y=581389.9 N X=753230.4 E LAT.=32.595655° N LONG.=103.511099° W	LOT 2 As per LR2000 40.66 Ac LOT 2 41.81 Ac Y=586213.8 N X=753537.0 E Y=586419.7 N X=755173.5 E Y=581065.3 N X=753890.9 E Y=581054.4 N X=752569.0 E 330' B.H.	LOT 1 190' S.L. 1090' 41.94 Ac Y=586406.9 N X=753853.0 E	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. <i>Melanie J Parker</i> 6/2/14 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 <i>Chad L. Harcrow</i> 5/27/14 Certificate No. CHAD HARCROW 17777 W.O. # 14-442 DRAWN BY: AM
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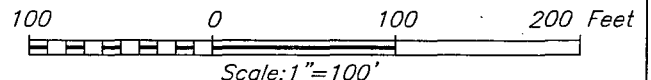
DEC 03 2014

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 LEFT (EAST) AND GO APPROX. 0.5 MILE; THEN PROPOSED WELL IS APPROX. 590 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 #2H WELL
LOCATED 190 FEET FROM THE NORTH LINE
AND 1090 FEET FROM THE EAST 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

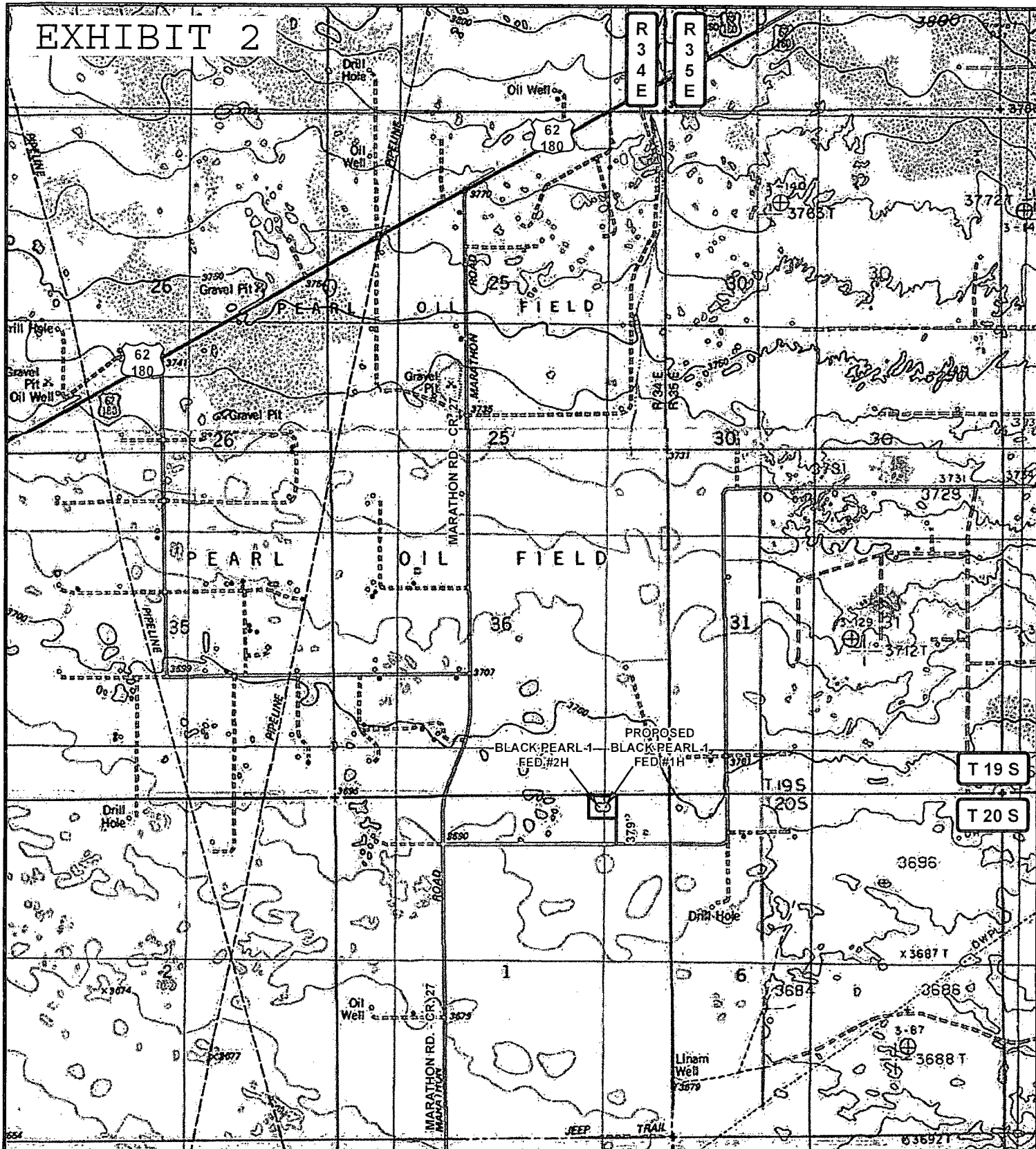
DRAFTING DATE: 4/8/2014

APPROVED BY: CH

DRAWN BY: AM

FILE: 14-247

EXHIBIT 2

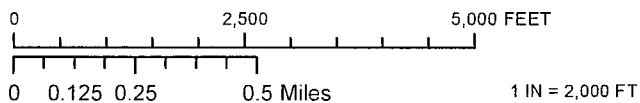


LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #2H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3694.3'
 STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1090' FEL
 W.O. # 14-247 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M

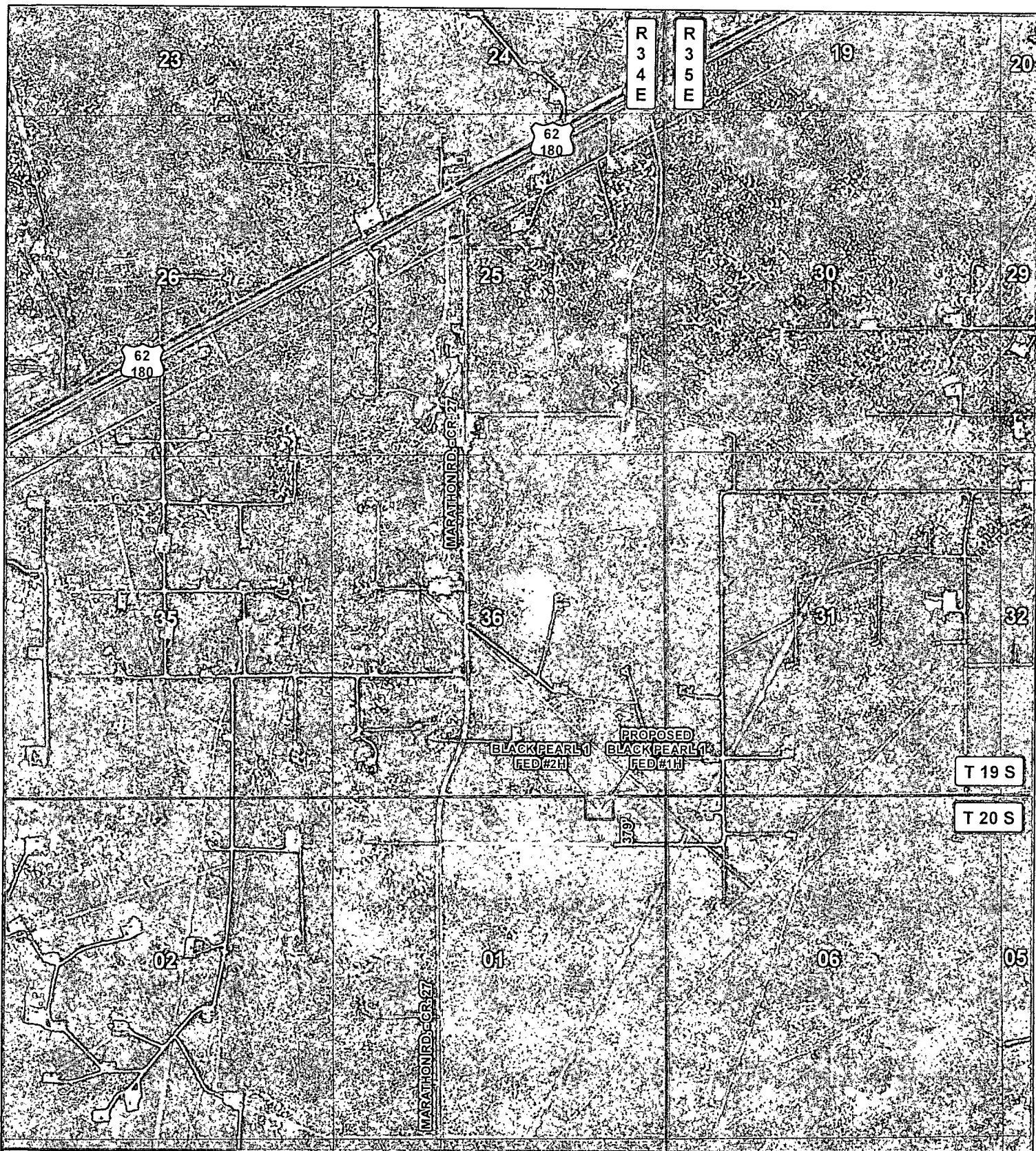


LOCATION MAP TOPO 04/09/2014 S.P.

CONCHO
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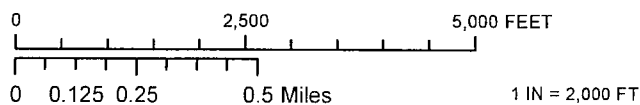


LEGEND

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- WELLPAD
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LOCATION MAP

IMAGERY

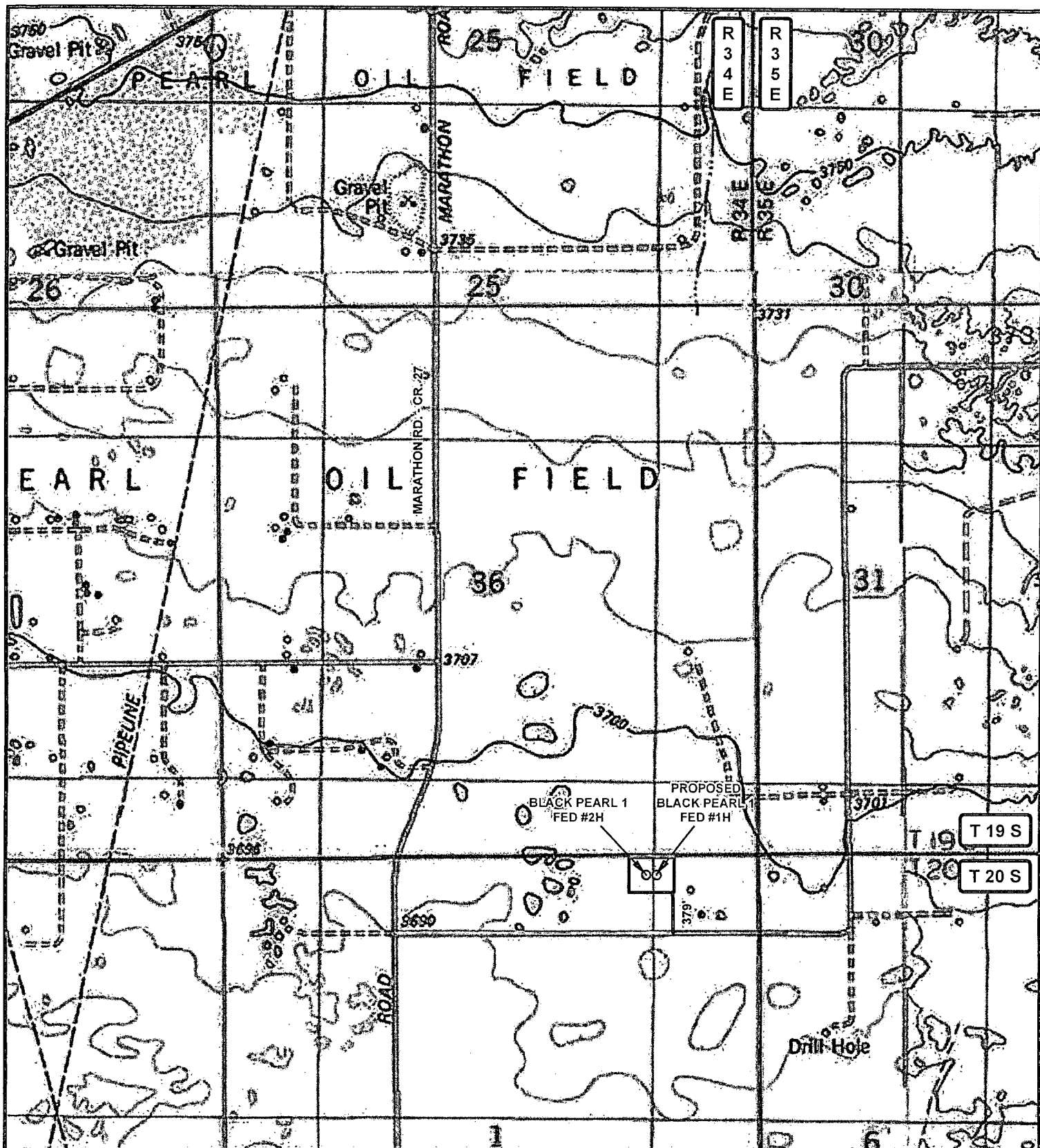
04/09/2014

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LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #2H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3694.3'

STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1090' FEL

W.O. # 14-247 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

ROAD MAP

TOPO

04/09/2014

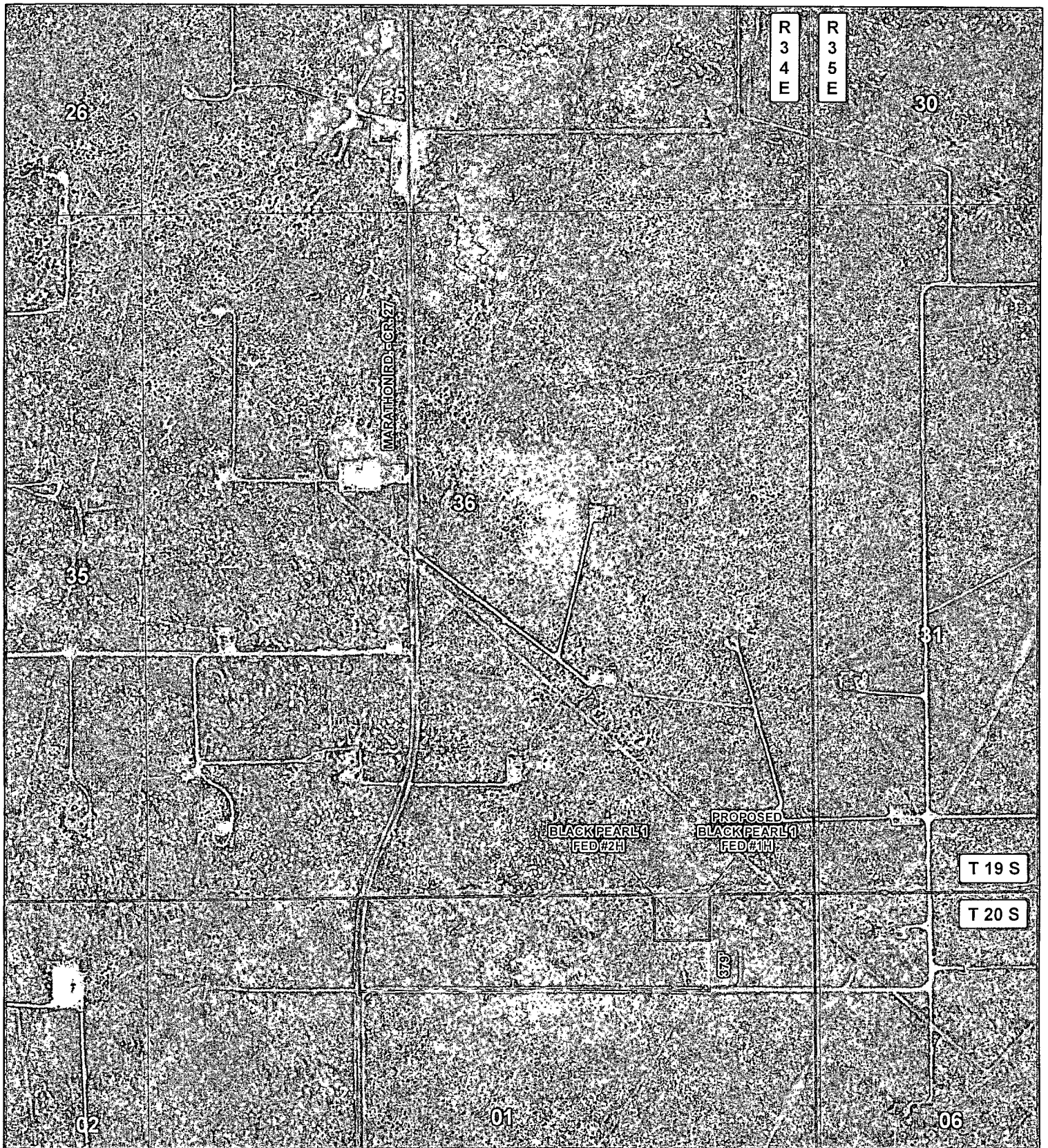
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LEGEND

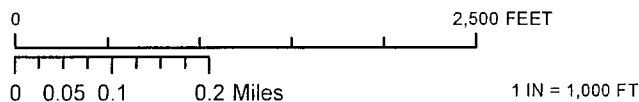
- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #2H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3694.3'

STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1090' FEL

W.O. # 14-247 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M



ROAD MAP

IMAGERY

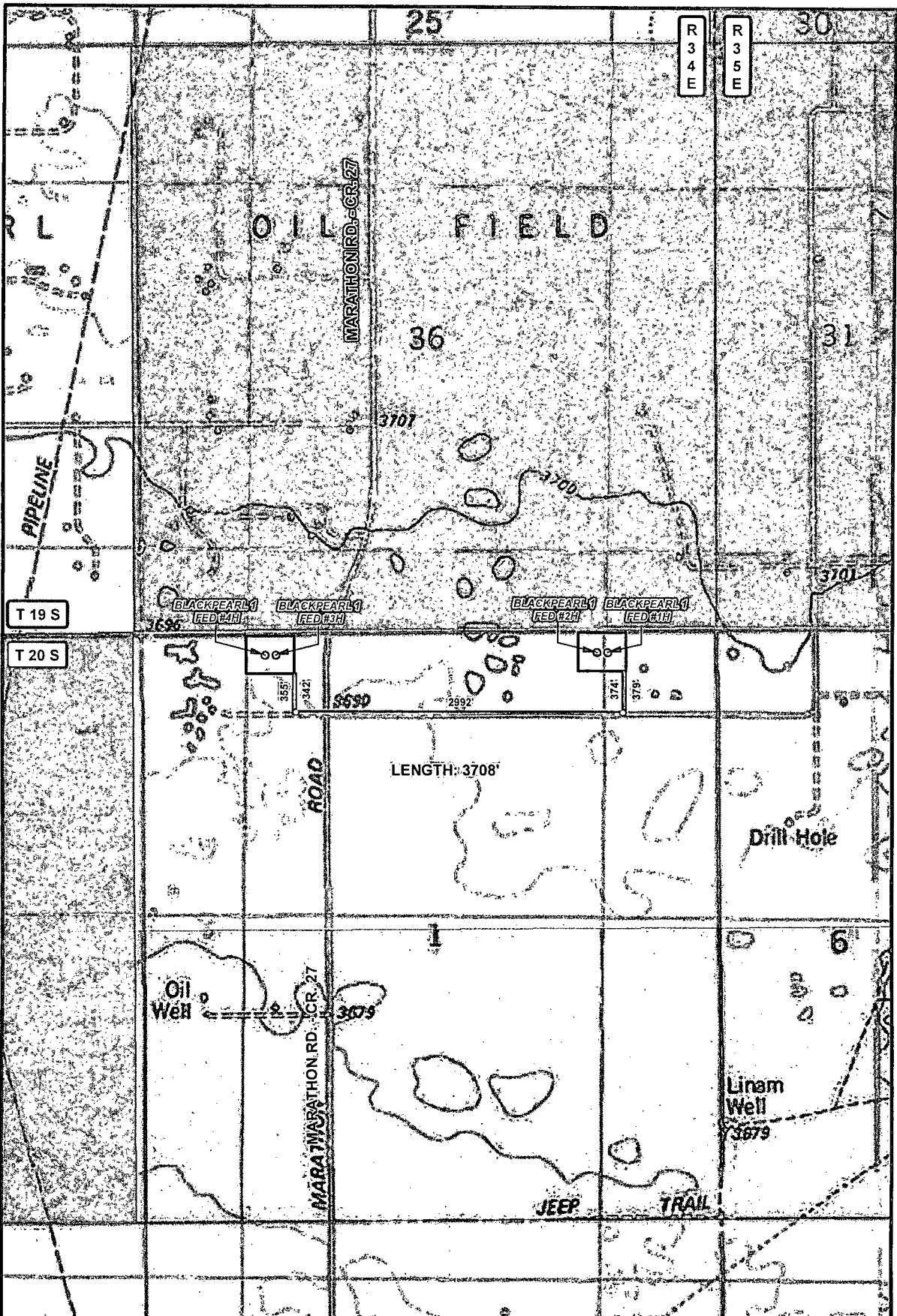
04/09/2014

SP.

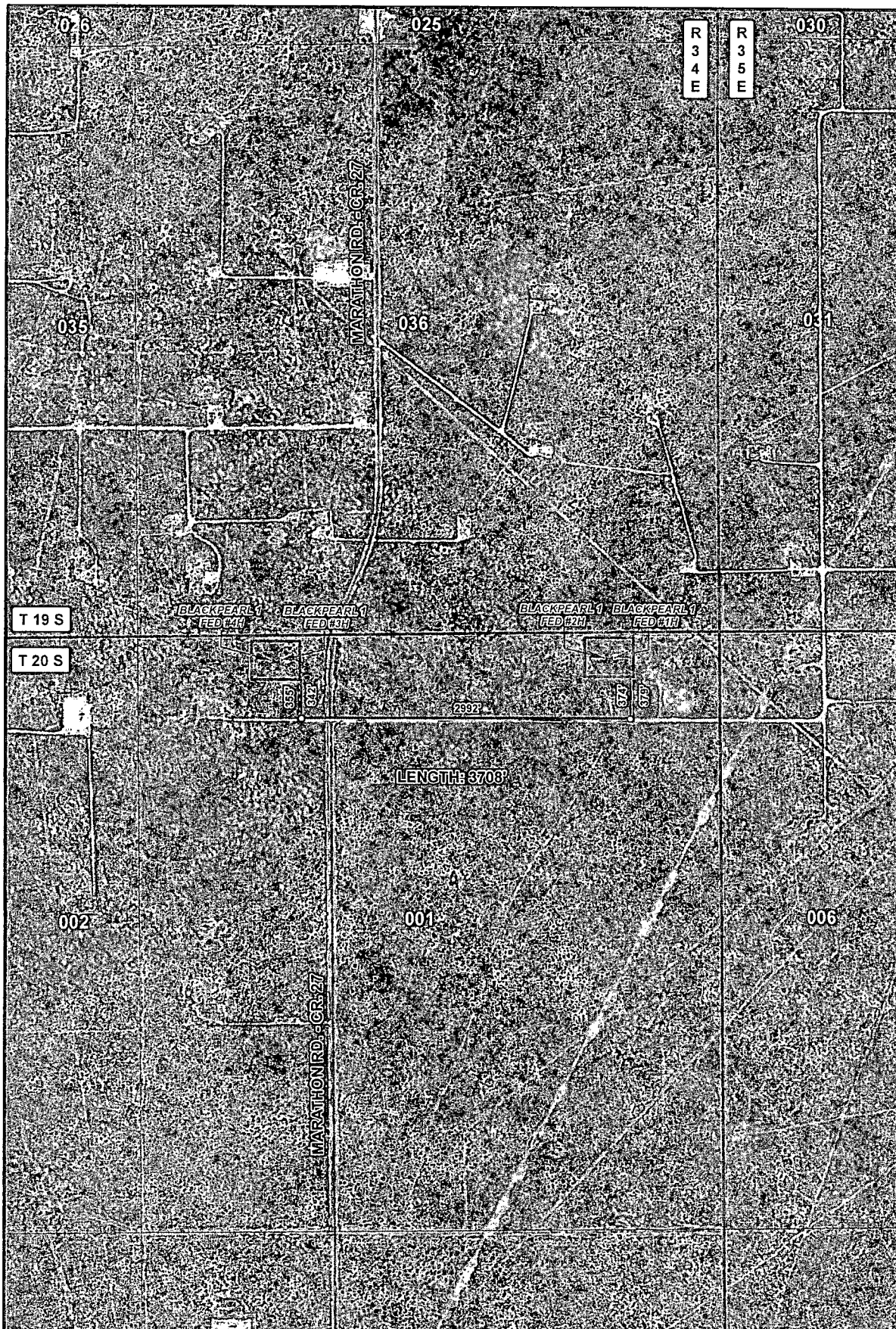
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LEGEND ○ BEND — FLOWLINE • WELL □ WELLPAD — EXISTING ROAD - - - PROPOSED ROAD □ PRIVATE ▨ STATE OF NM □ US BLM	BLACK PEARL 1 FED FLOWLINE SECTION: 1 TOWNSHIP: 20 S. RANGE: 34 E. LENGTH: 3708' STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M W.O. # 14-401 LEASE: BLACK PEARL 1 FED 0 2,500 FEET 0 0.075 0.15 0.3 Miles 1 IN = 1,000 FT FLOWLINE MAP LAND STATUS 05/18/2014 SP.	CONCHO COG OPERATING, LLC HARCROW SURVEYING, LLC. 2314 W. MAIN ST. ARTESIA, NM 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com
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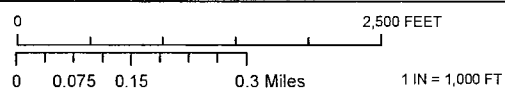


LEGEND

- BEND
- FLOWLINE
- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD
- PRIVATE
- STATE OF NM
- US BLM

BLACK PEARL 1 RED FLOWLINE

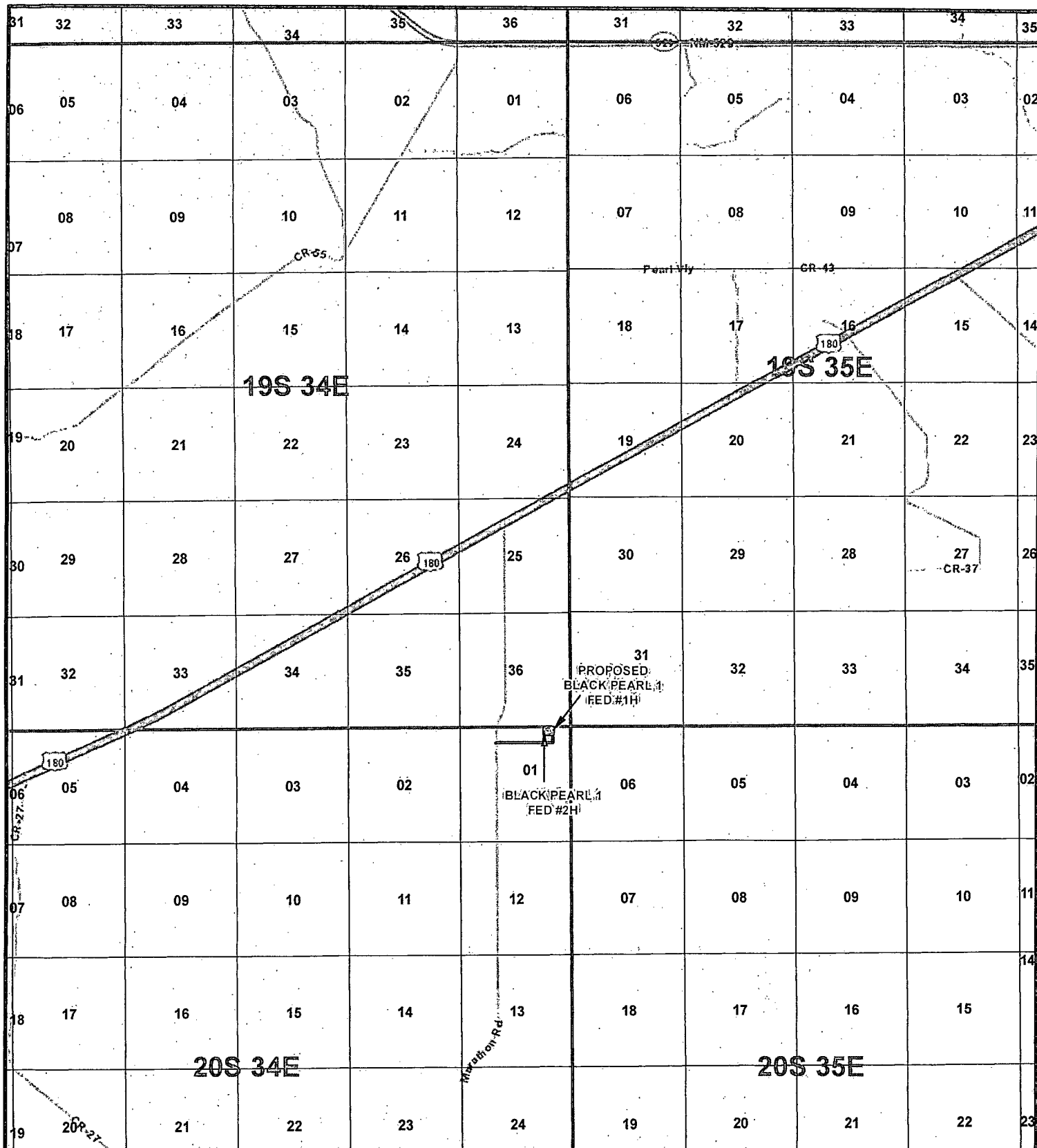
SECTION: 1 TOWNSHIP: 20 S. RANGE: 34 E. LENGTH: 3708'
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M
 W.O. # 14-401 LEASE: BLACK PEARL 1 FED



FLOWLINE MAP IMAGERY 05/13/2014 S.P

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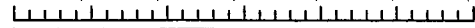
LEGEND

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

BLACK PEARL 1 FED #2H

SEC: 1 TWP: 20 S. RGE: 34 E. ELEVATION: 3694.3'
 STATE: NEW MEXICO COUNTY: LEA 190' FNL & 1090' FEL
 W.O. # 14-247 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

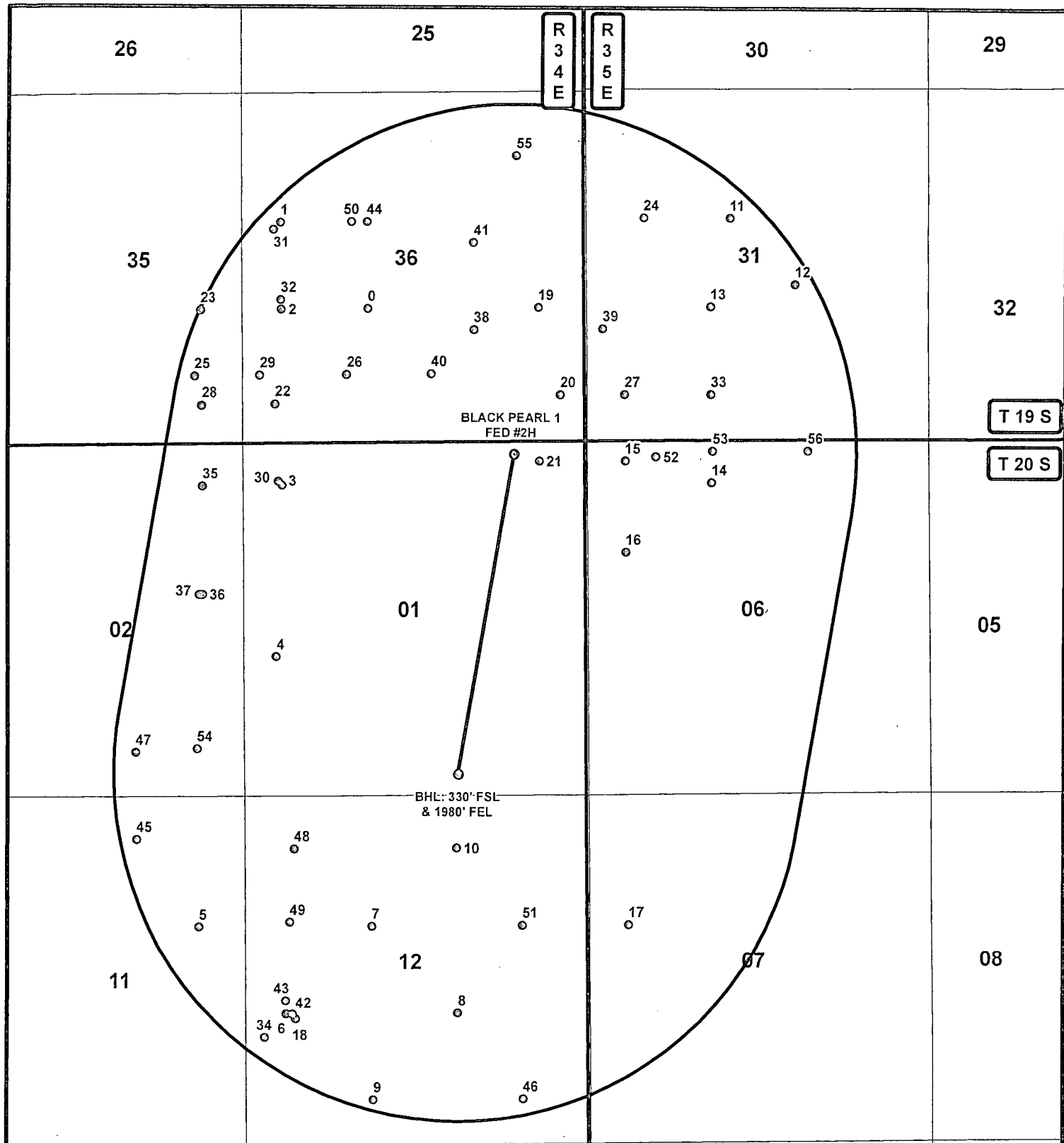
04/09/2014

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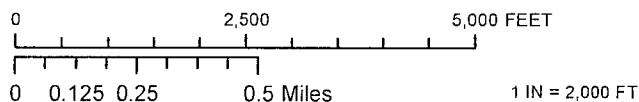
DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH MARCH 9, 2014.

LEGEND

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

BLACK PEARL 1 FED #2H

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 W.O. # 14-247 LEASE: BLACK PEARL 1 FED SURVEY: N.M.P.M



1-MILE MAP

04/09/2014

S.P.

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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	MACK ENERGY CORP	HADSON STATE 001	32.615069	-103.515982	3002502404	36	19.0S	34E	1980 S		1980 W		5060	Plugged
1	B2J, L.L.C.	SARAH SUE 001	32.618689	-103.520292	3002502405	36	19.0S	34E	1980 N		660 W		5050	TA
2	XERIC OIL & GAS CORP	LEA K STATE 001	32.615058	-103.52029	3002502406	36	19.0S	34E	1980 S		660 W		4980	Plugged
3	CACTUS DRILLING CORP OF TEXAS	TEXACO FEDERAL 001	32.607802	-103.520285	3002502407	1	20.0S	34E	660 N		660 W		5003	Plugged
4	ARMSTRONG ENERGY CORP	K F QUAIL FEDERAL 001	32.600686	-103.52062	3002502408	1	20.0S	34E	2086 S		556 W		13745	Plugged
5	LEGACY RESERVES OPERATING, LP	LEA UNIT 004	32.589514	-103.524565	3002502424	11	20.0S	34E	1980 N		660 E		15346	Active
6	MARATHON OIL CO	LEA UNIT 001	32.585861	-103.520248	3002502427	12	20.0S	34E	1980 S		660 W		4137	Plugged
7	LEGACY RESERVES OPERATING, LP	LEA UNIT 002	32.589507	-103.515953	3002502428	12	20.0S	34E	1980 N		1980 W		14501	Active
8	LEGACY RESERVES OPERATING, LP	LEA UNIT 005	32.58586	-103.511683	3002502429	12	20.0S	34E	1980 S		1980 E		14476	Active
9	LEGACY RESERVES OPERATING, LP	LEA UNIT 007	32.582232	-103.51593	3002502430	12	20.0S	34E	660 S		1980 W		14540	Active
10	LEGACY RESERVES OPERATING, LP	LEA UNIT 008	32.592721	-103.511703	3002502431	12	20.0S	34E	810 N		1980 E		14693	Active
11	XERIC OIL & GAS CORP	WEST PEARL QUEEN UNIT 154	32.618782	-103.497846	3002503266	31	19.0S	35E	1980 N		2283 W		5029	Active
12	XERIC OIL & GAS CORP	WEST PEARL QUEEN UNIT 156	32.61599	-103.494621	3002503267	31	19.0S	35E	2310 S		1980 E		4997	Plugged
13	GULF OIL CORP	WEST PEARL QUEEN UNIT 155	32.615088	-103.498832	3002503268	31	19.0S	35E	1980 S		1980 W		5008	Plugged
14	TANDEM ENERGY CORPORATION	CACTUS FEDERAL 002	32.607831	-103.498826	3002503334	6	20.0S	35E	660 N		1980 W		5028	Active
15	TANDEM ENERGY CORPORATION	CACTUS FEDERAL 003	32.608743	-103.503136	3002503335	6	20.0S	35E	330 N		660 W		5030	Active
16	CACTUS DRILLING CORP OF TEXAS	FEATHERSTONE FEDERAL 004	32.604944	-103.503125	3002503336	6	20.0S	35E	1712 N		660 W		5100	Plugged
17	SINCLAIR OIL & GAS COMPANY	LEA FEDERAL 001	32.58951	-103.503081	3002503337	7	20.0S	35E	1980 N		660 W		14947	Plugged
18	MARATHON OIL CO	LEA UNIT 001	32.585655	-103.519758	3002512789	12	20.0S	34E	1905 S		810 W		4137	Plugged
19	TANDEM ENERGY CORPORATION	PURE STATE 002	32.61509	-103.507448	3002520078	36	19.0S	34E	1980 S		660 E		5026	Active
20	TANDEM ENERGY CORPORATION	PURE STATE 001	32.611464	-103.50637	3002520096	36	19.0S	34E	660 S		330 E		4890	Active
21	TANDEM ENERGY CORPORATION	TEXACO FEDERAL 002	32.60874	-103.507443	3002520189	1	20.0S	34E	330 N		660 E		5000	Plugged
22	TIPTON & DENTON	PURE STATE 001	32.611154	-103.520613	3002520291	36	19.0S	34E	560 S		560 W		5170	Active
23	LINN OPERATING, INC.	MESCALERO RIDGE UNIT 351	32.615048	-103.524271	3002520302	35	19.0S	34E	1980 S		560 E		5152	Active
24	CACTUS DRILLING CORP OF TEXAS	AZTEC STATE 010	32.618806	-103.50215	3002520614	31	19.0S	35E	1980 N		964 W		5030	Plugged
25	DEVON ENERGY PRODUCTION COMPANY, LP	MESCALERO RIDGE UNIT 010	32.612326	-103.524595	3002521265	35	19.0S	34E	990 S		660 E		5180	Plugged
26	TANDEM ENERGY CORPORATION	MINERALS STATE 001	32.612345	-103.517057	3002521281	36	19.0S	34E	990 S		1650 W		5327	Active
27	BTA OIL PRODUCERS, LLC	PEARL 692 LTD 001	32.611464	-103.503139	3002523098	31	19.0S	35E	660 S		660 W		5025	TA
28	CIMAREX ENERGY CO. OF COLORADO	MESCALERO RIDGE UNIT 003	32.611129	-103.524249	3002523503	35	19.0S	34E	554 S		554 E		5990	Plugged
29	TIPTON & DENTON	DELAWARE STATE 001	32.612334	-103.521365	3002523550	36	19.0S	34E	990 S		330 W		10225	Active
30	ARMSTRONG ENERGY CORP	K F QUAIL FEDERAL 002	32.607966	-103.520481	3002523601	1	20.0S	34E	600 N		600 W		9800	Plugged
31	C W TRAINER	LEA DS STATE 001	32.618397	-103.520638	3002523611	36	19.0S	34E	2086 N		554 W		9744	Zone Plugged
32	MACK ENERGY CORP	STATE 36 002	32.61547	-103.52029	3002523690	36	19.0S	34E	2130 S		660 W		10250	Plugged
33	BTA OIL PRODUCERS, LLC	PEARL 692 LTD 002	32.611459	-103.498831	3002525523	31	19.0S	35E	660 S		1980 W		4985	Active
34	LEGACY RESERVES OPERATING, LP	LEA UNIT SWD 002	32.584885	-103.521321	3002528528	12	20.0S	34E	1625 S		330 W		4611	Active
35	ARMSTRONG ENERGY CORP	WEST PEARL STATE 001	32.607792	-103.524233	3002528583	2	20.0S	34E	660 N		550 E		14840	Active
36	MOBIL PROD TX & NM	WEST PEARL STATE 002	32.603284	-103.524263	3002529689	2	20.0S	34E	2300 N		560 E		1649	Plugged
37	MOBIL PROD TX & NM	WEST PEARL STATE 002Y	32.603278	-103.524426	3002529714	2	20.0S	34E	2302 N		610 E		6400	Plugged
38	TANDEM ENERGY CORPORATION	UNOCAL STATE 001	32.614175	-103.510678	3002530852	36	19.0S	34E	1650 S		1650 E		5000	Active
39	XERIC OIL & GAS CORP	FINA STATE 001	32.614187	-103.504217	3002530930	31	19.0S	35E	1650 S		330 W		5000	Plugged
40	TANDEM ENERGY CORPORATION	JAMAICA STATE 001	32.612355	-103.512831	3002531011	36	19.0S	34E	990 S		2310 E		5100	Active
41	XERIC OIL & GAS CORP	TEXAS STATE 001	32.617807	-103.51068	3002531169	36	19.0S	34E	2310 N		1650 E		5096	Plugged
42	MARATHON OIL CO	LEA UNIT 015	32.585861	-103.519922	3002531788	12	20.0S	34E	1980 S		760 W		5494	Plugged
43	LEGACY RESERVES OPERATING, LP	LEA UNIT 016	32.586411	-103.52025	3002532033	12	20.0S	34E	2180 S		660 W		14407	Active
44	TRILOGY OPERATING INC	PEARL STATE 001	32.6187	-103.515985	3002532935	36	19.0S	34E	1980 N		1980 W		5300	Plugged
45	LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT TR 018	32.593147	-103.527643	3002536904	11	20.0S	34E	660 N		1600 E		13380	Active
46	LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT 019	32.582231	-103.508443	3002536905	12	20.0S	34E	660 S		990 E		13295	Active
47	THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 001	32.596775	-103.527651	3002537453	2	20.0S	34E	660 S		1600 E		13650	Active
48	LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT 021	32.592725	-103.51978	3002537525	12	20.0S	34E	810 N		810 W		11153	Active
49	SAMSON RESOURCES CO	LEA FEDERAL UNIT 025E	32.589688	-103.520031	3002538007	12	20.0S	34E	1915 N		730 W		0	New (Not drilled or compl)
50	COG OPERATING LLC	WEST PEARL 36 STATE 001	32.618698	-103.516768	3002538079	36	19.0S	34E	1980 N		1740 W		13657	Active
51	LEGACY RESERVES OPERATING, LP	LEA FEDERAL UNIT 022	32.589503	-103.508431	3002539010	12	20.0S	34E	1980 N		980 E		11495	Active
52	COG OPERATING LLC	PRICKLY PEAR 6 FEDERAL 004H	32.608906	-103.501603	3002540778	6	20.0S	35E	270 N		1130 W		15540	New (Not drilled or compl)
53	COG OPERATING LLC	PRICKLY PEAR 6 FEDERAL 003H	32.609123	-103.498765	3002541629	6	20.0S	35E	190 N		2000 W		0	New (Not drilled or compl)
54	THREE RIVERS OPERATING COMPANY LLC	EAGLE 2 STATE 007H	32.596908	-103.524584	3002540331	2	20.0S	34E	710 S		660 E		0	New (Not drilled or compl)

55 COG OPERATING LLC	WEST PEARL 36 STATE SWD 001	32.62144	-103.508528	3002541028	36 19.0S	34E	990 N	990 E	99 New (Not drilled or compl)
56 COG OPERATING LLC	PRICKLY PEAR 6 FEDERAL 002H	32.609118	-103.494017	3002541572	6 20.0S	35E	190 N	1790 E	0 New (Not drilled or compl)