

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

**APPLICATION OF ROVER OPERATING, LLC
FOR APPROVAL OF A SECONDARY RECOVERY
PROJECT, EDDY COUNTY, NEW MEXICO.**

Case No. 16355

APPLICATION

River Operating, LLC ("Applicant"), whose address is Suite 740, 17304 Preston Road, Dallas, Texas 75252, phone number (214) 234-9115, applies for an order approving a secondary recovery project. In support thereof, applicant states:

1. Applicant is the operator of the proposed RP State Unit (the "Unit Area"), which covers the following lands located in Lea County, New Mexico:

Township 17 South, Range 31 East, N.M.P.M.
Section 2: Lots 1-4, S/2N/2, and S/2 (All)

Containing 639.60 acres of federal, state, and fee lands.

The Unitized Formation is the the top of the Loco Hills Sand to a lower limit at the base of the Lovington Sand, in the Gray-burg-Jackson (Seven Rivers-Queen-Grayburg-San Andres) Pool, as further described in the unitization application filed concurrently with this application.

2. Applicant proposes to institute a secondary recovery project in the Unit Area.
3. Applicant proposes to inject water into the Unitized Formation, as defined in the Unit Agreement.

4. Initially, Applicant will inject water into the following wells:

Wilson Well No. 2
Unit J §2

Featherstone CBS Well No. 2
Unit F §2

Tidewater State K Well No. 4
Unit H §2

Additional injection wells may also be re-completed or drilled on an ongoing basis. Applicant requests that it be permitted to apply administratively for approval of additional injection wells.

5. The Form C-108 for the project is attached as Exhibit A.
6. Approval of this application will prevent waste and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order approving the injection application.

Respectfully submitted,



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Attorney for Rover Operating, LLC

Case 16355

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ Yes ☒ No

II. OPERATOR: Rover Operating, LLC

ADDRESS: 17304 Preston Road, Suite 740, Dallas, TX 75252

CONTACT PARTY: Amanda Barringer PHONE: 469-607-1073

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? ☐ Yes ☒ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

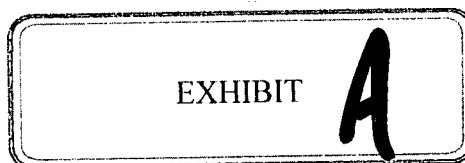
XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Amanda Barringer

SIGNATURE: _____

E-MAIL ADDRESS: abarringer@roverpetro.com

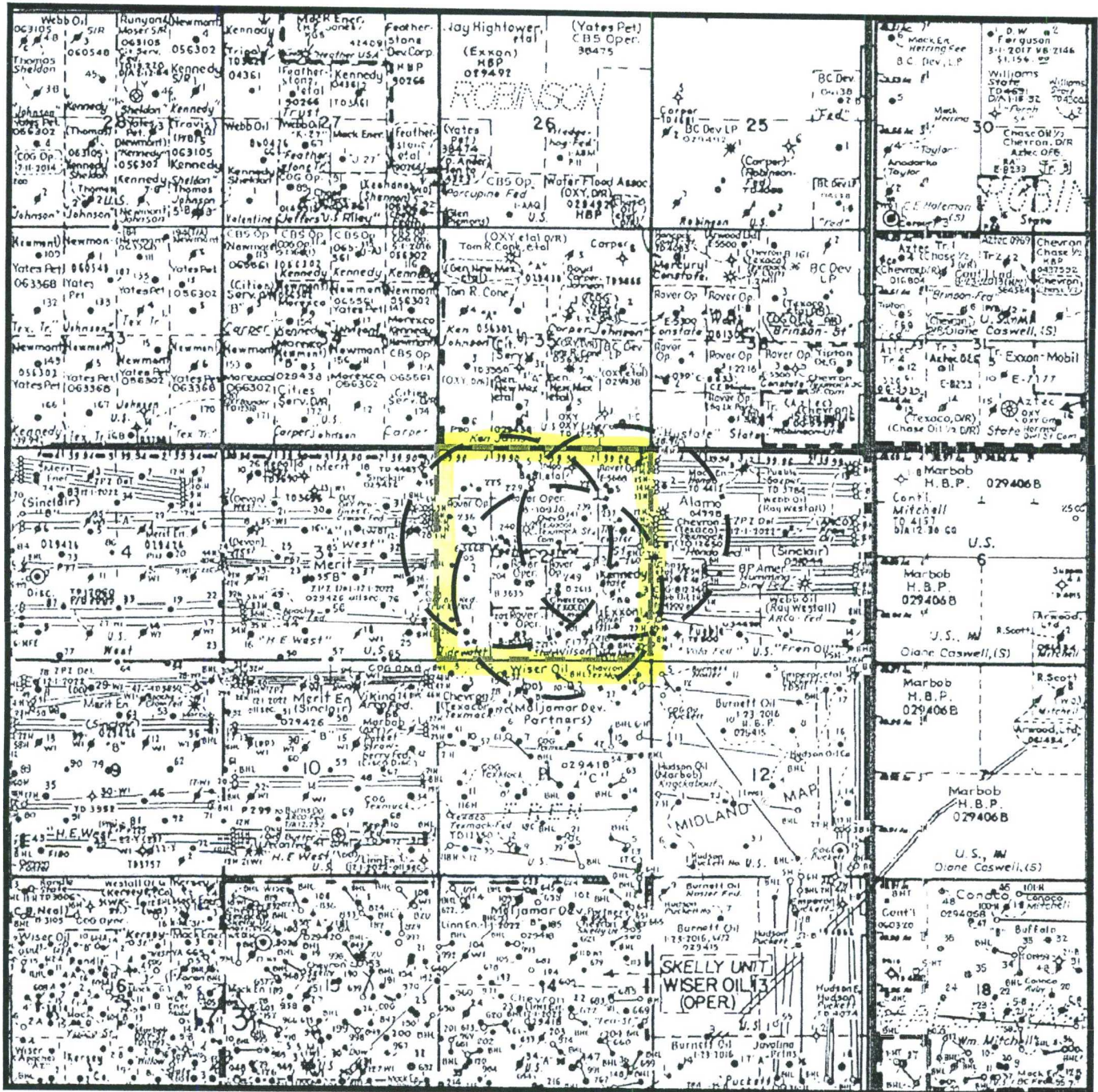
* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____



RP State Unit C-108 Part V

Section 2, T-17-S, R-31-E

Eddy County, New Mexico



Map Scale:



Legend



= Proposed Unit Outline



= 1/2-mile radius around proposed injectors

No.	Lease Name	Well No.	API No.	Overall Perf Interval	Comments
1	CARPER-FEDERAL A	1	30-015-04987	3565'-85', 85'-3625', 25'-55', 55'-3748', 48'-70',	IP 1/13/1945 - 120 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE)
2	NORTH SQUARE LAKE UNIT #174	2-B	30-015-04988	3540'-3567', 3739'-3766'	IP 4/28/1945 - 12 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE)
3	JOHNSON #011	11	30-015-04996	3769'	IP 07/15/1947 - 198 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE)
4	JOHNSON #012	12	30-015-04997	3592', 3750'	IP 10/11/1947 - 55 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE)
5	BAXTER C FEDERAL #001	1	30-015-05002	N/A	IP 3/28/1961 - 52.25 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE) (DRY HOLE MKR)
6	BAXTER C FEDERAL #002	2	30-015-05003	3638'-46', 96'-3703', 38'-44', 62'-68', 82'-86', 3903'-15'	IP 11/15/1961 - 35 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE) (DRY HOLE MKR)
7	JOHNSON #003	3	30-015-05005	10"	NO WELL FILES AVAILABLE
8	CARPER JOHNSON A	3-Y	30-015-05006	N/A	IP 2/20/1940 93.34 BO 0 BW (DRY HOLE MKR)
9	CARPER JOHNSON A #004	4	30-015-05007	3845'-3795'	IP 12/1/1940 150 BO 0 BW (DRY HOLE MKR)
10	KENNEDY JOHNSON A #002	2	30-015-05009	3660'-3760, 3840'-3890' (OPEN-HOLE)	IP 10/28/1938 123 BO 0 BW (HOLE SIZE FROM WELL SKETCH)
11	KENNEDY JOHNSON A #003	3	30-015-05010	3630'-3826' (OPEN HOLE)	IP 12/10/1938 132 BO 0 BW
12	KENNEDY JOHNSON A #005	5	30-015-05013	3843'-3871'	IP 2/11/1952 25 BO 0 BW (DRY HOLE MKR) (NO HOLE SIZE, OR TOC AVAILABLE)
13	HUSTATE #002	2	30-015-05018	3654'-3720', 3754'-66', 3923'-27'	IP 11/20/1961 43 BO 2 BW
14	HUSTATE #001	1	30-015-05021	3683'-86', 3724'-30', 67'-73', 78'-80', 93'-98', 3807'-09', 3920'-31'	IP 10/18/1961 58 BO 4 BW
15	GESSERT #002	2	30-015-05029	N/A	NO WELL FILES AVAILABLE. INFO FROM WELL LIST & OCD
16	GESSERT #003	3	30-015-05030	N/A	NO WELL FILES AVAILABLE. INFO FROM WELL LIST & OCD
17	HONDO K FEDERAL #001	1	30-015-05033	3609'-15', 3644'-50', 3678'-68'	IP 10/24/1960 46.8 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE)
18	FEATHERSTONE #005	5	30-015-05034	3022'-3852' (OPEN HOLE)	IP 11/9/1959 37 BO 10 BW
19	STATE	1	30-015-05035	N/A	NO IP FOUND
20	FEATHERSTONE #001	1	30-015-05036	3538'-52', 60'-62', 66'-78', 96'-3602', 32'-40'	IP 10/1/1959 71 BO 0 BW
21	FEATHERSTONE CBS #002	2	30-015-05037	2329'-31', 3520'-26', 35'-41', 73'-77', 3608'-13', 37'-40', 42'-46'	IP 10/27/1959 76 BO 0 BW
22	FEATHERSTONE CBS #003	3	30-015-05038	3555'-59', 3605'-09', 43'-47', 60'-64', 74'-78', 3802'-08'	IP 11/24/1959 79 BO 0 BW
23	FEATHERSTONE CBS #004	4	30-015-05039	3514'-20', 29'-33', 69'-73', 3605'-11', 26'-30', 35'-47'	IP 12/17/1959 83 BO 0 BW
24	WILSON #001	1	30-015-05040	3585'-89', 3626'-31', 48'-49', 57'-59', 61'-65', 3802'-03'	IP 7/28/1959 65 BO 0 BW CHOKE SIZE 3/4" GAS WAS FLARED AT 120 MCF/DAY RATE
25	WILSON #002	2	30-015-05041	3491'-98', 3525'-26', 3617'-25'	IP 9/5/1959 72 BO 0 BW CHOKE SIZE 3/4" GAS FLARED AT 125 MCF/DAY RATE
26	STATE BKC #009	9	30-015-05042	3494'-98', 3502'-10', 94'-3604', 25'-41', 3762'-82'	IP 1/8/1959 72 BO 0 BW CHOKE SIZE 1/4"
27	STATE BKC #010	10	30-015-05043	3501'-15', 62'-68', 3600'-37'	IP 1/9/1961 120 BO 0 BW CHOKE SIZE 20/64
28	STATE BGK #001	1	30-015-05044	3652', 3658', 3680', 3688'	IP 11/18/1960 8 BO 2 BW CHOKE SIZE 32" SPM DRY HOLE MKR
29	TIDEWATER K STATE #005	5	30-015-05045	3585'-92', 3636'-42', 72'-80'	IP 7/5/1961 37.62 BO 0 BW
30	TIDEWATER K STATE #001	1	30-015-05046	3500'-04', 81'-86', 3613'-19'	IP 10/8/1960 82.2 BO 0 BW
31	TIDEWATER K STATE #002	2	30-015-05047	3482'-89', 3570'-77', 3601'-09', 3739'-47'	IP 10/19/1960 197.22 BO 0 BW CHOKE SIZE 26/64"
32	TIDEWATER K STATE #003	3	30-015-05048	3489'-96', 3541'-47', 78'-84', 3743'-50'	IP 1/21/1961 210 BO 0 BW CHOKE SIZE 22/64" GRAV 36.4
33	TIDEWATER K STATE #004	4	30-015-05049	3579'-86', 3629'-36', 66'-72'	IP 2/8/1961 106.52 BO 0 BW CHOKE SIZE 13/64"
34	H.E. WEST #003	3	30-015-05050	N/A	N/A
35	H E WEST A #011	11	30-015-05054	3439'-3570', 3601'-3770', 3812'-3973'	IP 8/14/1989 50 BO 70 BW 45 MCF
36	H E WEST A #012	12	30-015-05055	3544'-50', 72'-80'	IP 5/21/1961 16 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE)
37	H E WEST B #018	18	30-015-05057	3393'-3401', 3430'-35', 43'-48', 56'-64'	IP 12/16/1958 56 BO 0 BW
38	H E WEST B #025	25	30-015-05059	3543'-3547'	IP 1/9/1961 178 BO 0 BW
39	H E WEST B #026	26	30-015-05060	3422'-27', 58'-63', 73'-78', 85'-90', 3546'-51', 63'-68', 74'-79', 3714'-34'	IP 3/17/1961 6 BO 0 BW
40	H E WEST B #015	15	30-015-05124	3230', 3368'-78', 92'-3752', 99'-3916'	IP 7/8/1958 71 BO 0 BW
41	H E WEST B #024	24	30-015-05128	3396'-3402', 28'-38', 3534'-78' (OPEN HOLE)	IP 1/29/1960 38 BO 0 BW
42	LEA C FEDERAL #001	1	30-015-05129	3452'-62', 84'-89', 94'-3500', 90'-98', 3604'-07', 08'-12', 14'-18', 20'-33'	IP 7/23/1959 65 BO 0 BW CHOKE SIZE 3/4"
43	LEA C FEDERAL #002	2	30-015-05130	3463'-74', 3500'-10', 14'-18', 3607'-22', 28'-35'	IP 10/25/1959 257 BO 0 BW CHOKE SIZE 3/4"
44	LEA C #003	3	30-015-05131	3430'-38', 60'-66', 70'-74', 3537'-42', 66'-76', 79'-82', 56'-90', 3600'-06'	IP 5/19/1960 35 BO 0 BW
45	LEA C FEDERAL #006	6	30-015-05134	3690'-3700', 27'-31', 3880'-83', 96'-98', 3914'-18', 22'-24', 37'-40'	IP 4/7/1962 19 BO 0 BW
46	KENNEDY JOHNSON A #006	6	30-015-10165	3533'-37', 84'-90', 3626'-32', 35'-39', 46'-50', 55'-62', 3774'-84'	IP 12-30-1962 50 BO 20 BW
47	HONDO K FEDERAL #002	2	30-015-10185	3604'-15', 60'-65', 96'-3710'	IP 1/16/1963 44.5 BO 0 BW (NO HOLE SIZE, OR TOC AVAILABLE)
48	H E WEST A #013	13	30-015-10374	3369'-3590' (OPEN HOLE)	N/A
49	CARPER JOHNSON A	7	30-015-20055	3611'-14', 17'-23', 58'-62', 70'-74', 80'-86', 3809'-23'	IP 6/26/1967 44 BO 20 BW
50	LEA C FEDERAL #007	7	30-015-20627	3407'-3895' (OPEN HOLE) 3441'-3818' (OPEN HOLE)	IP 11/14/2012 2.5 BO 12 BW CHOKE SIZE 1"
51	LEA C FEDERAL #010	10	30-015-20678	3385'-3838'	IP 8/30/1972 52 BO 21 BW 60 MCF
52	LEA C FEDERAL #015	15	30-015-20706	3442'-3702', 3749'-4014'	IP 9/28/2012 2 BO 9 BW
53	LEA C FEDERAL #016	16	30-015-20707	3409'-3688', 3748'-4005'	IP 5/16/2013 11 BO 47 BW IP 11/8/1972 28 BO 5 BW 36 MCF
54	NORTH SQUARE LAKE UNIT #156	18	30-015-21771	3486'-96', 3541'-48', 86'-94'	IP 4/26/1976 70 BO 3 BW *FOR CSG 4-1/2" HOLE SIZE CHANGES TO 7-7/8" 650 SKS
55	STATE BGK #002	2	30-015-22585	3530'-40'	IP 8/8/1978 81.45 BO 0 BW 65.24 MCF
56	TIDEWATER K STATE #006	6	30-015-22641	3008'-14', 3596'-3600', 3649'-55', 3688'-92'	IP 10/3/1978 57 BO 41 BW (FRAC) 23.43 MCF

No.	Lease Name	Well No.	API No.	Overall Perf Interval	Comments
57	H E WEST B #001	1	30-015-22662	3380'-3754', 3800'-3935' (OPEN HOLE)	IP 10/23/1989 16 BO 9 BW 10 MCF
58	STATE BGK #003	3	30-015-22981	3569'-74', 3659'-62', 68'-71', 75'-77', 80'-82', 84'-87', 91'-94'	IP 11/8/1979 85 BO 0 BW 71.38 MCF
59	STATE BGK #004	4	30-015-23375	N/A	NO IP FOUND
60	STATE BGK #005	5	30-015-23376	3467'-77', 3551'-60', 3601'-09', 54'-75', 3793'-97', 3809'-16'	IP 9/24/1980 25 BO 0 BW 26 MCF
61	VOLA FEDERAL #001	1	30-015-23556	3530'-3756', 4000'-4225'	IP 2/25/81 30 BO 20 BW 20 MCF
62	VOLA FEDERAL #002	2	30-015-23835	3994'-4140', 3490'-3764'	IP 8/10/1981 5 BO 0 BW 15 MCF
63	VOLA FEDERAL #003	3	30-015-24050	3610'-20', 32'-50', 66'-74', 90'-96', 3860'-80', 94'-3906', 4110'-20', 34'-44',	IP 8/29/1982 25 BO 0 BW 30 MCF
64	HUSTATE #003	3	30-015-24935	3762'-76', 90'-92', 3928'-34'	IP 9/10/1984 12 BO 40 BW (FRAC) CHOKE SIZE 2"
65	H E WEST B #037	37	30-015-26000	3410'-3614', 53'-3881', 3911'-4009'	IP 1/8/1989 5680 205 BW 28 MCF
66	H E WEST A #015	15	30-015-26015	3479'-3684', 3713'-3926', 3943'-4046'	IP 1/17/1989 115 BO 60 BW 60 MCF
67	H E WEST B #042	42	30-015-26044	3398'-3524', 3546'-99', 3614'-3791', 3808'-3923'	IP 3/3/1989 79 BO 200 BW 150 MCF
68	H E WEST A #018	18	30-015-26573	3457'-3521', 57'-71', 3716'-4071', 4107'-4267'	IP 11/9/1994 97 BO 328 BW
69	H E WEST B #058	58	30-015-27311	3319'-3583', 3665'-3748', 3814'-3958'	IP 1/1/1995 53 BO 20 BW
70	H E WEST B #057	57	30-015-27317	2276', 85', 88', 89', 95', 96', 97', 2311', 12', 13', 24', 2422', 23', 40'	IP 8/25/1996 34 BO 295 BW
71	H E WEST B #059	59	30-015-27318	2192'-2421'	IP 8/19/1996 6 BO 108 BW
72	H E WEST B #056	56	30-015-27353	3317'-3559', 3685'-3859', 3901'-4057', 4151'-4192'	IP 2/17/1995 43 BO 164 BW
73	H E WEST B #067	67	30-015-27354	3321'-3596', 3628'-3753', 3797'-3999', 4033'-4090', 4126'-4219'	IP 3/16/1995 35 BO 267 BW
74	H E WEST B #066	66	30-015-27785	3321'-3499', 3539'-3574', 3712'-3917'	IP 4/6/1995 105 BO 368 BW
75	H E WEST A #028	28	30-015-28318	3439'-3599', 3679'-3763', 3796'-3982', 4058'-4192'	IP 5/4/1995 20 BO 140 BW
76	H E WEST A #031	31	30-015-28323	3981'-4115', 3351'-3721', 3861'-3949'	IP 1/24/1996 42 BO 124 BW
77	H E WEST A #032	32	30-015-28324	3348'-3524', 3553'-3587', 3672'-3113', 4168'-4202'	IP 5/14/1995 40 BO 189 BW
78	H E WEST B #085	85	30-015-28387	3328'-3727', 3679'-4043', 4155'-4237'	IP 5/1/1995 35 BO 227 BW
79	H E WEST A #030	30	30-015-28465	3389'-3721', 3857'-4059'	IP 1/18/1996 94 BO 59 BW
80	H E WEST B #076	76	30-015-28466	3373'-3752', 3853'-3979', 4030'-4039'	IP 2/25/1996 267 BO 234 BW
81	H E WEST B #065	65	30-015-28634	3335'-3581', 3637'-3750', 3863'-3952'	IP 2/28/1996 39 BO 254 BW
82	H E WEST B #094	94	30-015-39349	3325'-3720', 3866'-3957'	NO IP FOUND
83	TEXMACK 11 FEDERAL #001	1	30-015-29720	5248'-6330', 12078'-12092'	IP 5/31/2012 105 BO 232 BW 48 MCF
84	TEXMACK 2 STATE COM #001	1	30-015-30162	12150'-12165'	IP 8/17/1998 177 BO 5457 BW
85	TEXMACK 1 FEDERAL COM #001	1	30-015-30512	11808'-11822', 12,396'-12,428'	NO IP FOUND
86	TEXMACK 2 STATE COM #002	2	30-015-30799	12144'-12188'	IP 3/21/2000 34 BO 0 BW 600 MCF CHOKE SIZE 22/64"
87	OXY LIBERATOR FEDERAL #001	1	30-015-30979	N/A	NO IP FOUND
88	OXY POTEET STRAWBERRY FEDERAL #001	1	30-015-31322	8597'-9684'	IP 10/15/2003 11 BO 66 BW 10 MCF
89	OXY PRALINES & CREAM FEDERAL #001Q	1	30-015-32982	11968'-11978'	IP 12/2/2003 211 BO 0 BW 3142 MCF
90	OXY BIG RED TRUCK FEDERAL #001	1	30-015-33257	N/A	NO IP FOUND
91	TEX-MACK #201	201	30-015-35913	5243'-5518', 5760'-5960', 6030'-6230', 6300'-6500'	IP 11/30/2010 195 BO 319 BW 162 MCF
92	TEX-MACK #202	202	30-015-35914	5610'-5716', 5822'-6022', 6102'-6216', 6303'-6505'	IP 2/1/2008 45 BO 261 BW 69 MCF
93	TEX-MACK #203	203	30-015-36195	5700'-5900', 5970'-6170', 6240'-6440'	IP 3/18/2010 129 BO 210 BW 78 MCF
94	TEX-MACK #204	204	30-015-36250	5630'-5830', 5900'-6100', 6180'-6380'	IP 6/15/2009 76 BO 498 BW 105 MCF
95	TEX-MACK #205	205	30-015-36251	5190'-5480', 5740'-5940', 6010'-6210', 6280'-6480'	IP 12/9/2010 157 BO 237 BW 111 MCF
96	TEX MACK 11 FEDERAL #003	3	30-015-36835	5620'-5820', 5890'-6090', 6180'-6380'	IP 6/26/2009 76 BO 211 BW 70 MCF
97	TEX MACK 11 FEDERAL #006	6	30-015-36848	5260'-5370', 5790'-5990', 6060'-6260', 6330'-6530'	IP 3/1/2010 127 BO 701 BW 100 MCF
98	TEX MACK 11 FEDERAL #007	7	30-015-36849	5257'-5430', 5680'-5880', 5950'-6150', 6230'-6430'	IP 1/1/2010 71 BO 683 BW 125 MCF
99	TEX MACK 11 FEDERAL #010	10	30-015-36851	5290'-5565', 5680'-5900', 5970'-6230', 6300'-6500'	NO IP FOUND
100	TEX MACK 11 FEDERAL #009	9	30-015-36945	5302'-5460', 5860'-6060', 6130'-6330', 6400'-6600'	IP 4/15/2010 139 BO 527 BW 142 MCF
101	PUCKETT NORTH #005	5	30-015-37159	3572'-3715', 3780'-4149'	IP 11/12/2009 78 BO 110 BW 72 MCF
102	TEX-MACK #221	221	30-015-37346	5250'-5390', 5660'-5860', 5930'-6130', 6200'-6400'	IP 4/8/2010 168 BO 477 BW 87 MCF
103	TEX-MACK #239	239	30-015-37419	3780'-5980', 6050'-6250', 6320'-6520'	IP 11/7/2010 133 BO 722 BW 133 MCF
104	TEX-MACK #240	240	30-015-37420	5235'-5485', 5710'-5910', 5980'-6180', 6250'-6450'	IP 4/10/2011 89 BO 458 BW 93 MCF
105	TEX-MACK #260	260	30-015-37421	5297'-5552', 5772'-5972', 6042'-6242', 6312'-6512'	IP 1/7/2011 157 BO 674 BW 124 MCF
106	TEX MACK 11 FEDERAL #011	11	30-015-37444	5310'-5560', 5700'-5900', 5970'-6170', 6280'-6530'	NO IP FOUND
107	TEX MACK 11 FEDERAL #054	54	30-015-37445	5810'-6010', 6080'-6280', 6350'-6550'	IP 7/12/2010 57 BO 503 BW 3 MCF
108	TEX MACK 11 FEDERAL #027	27	30-015-37822	5300'-5550', 5700'-5900', 5970'-6170', 6240'-6440'	IP 4/3/2011 103 BO 250 BW 111 MCF
109	PUCKETT NORTH #010	10	30-015-37912	3588'-3664', 3739'-4151'	IP 6/22/2011 58 BO 57 BW 125 MCF
110	PUCKETT NORTH #011	11	30-015-37913	3560'-3700', 3734'-4128'	IP 3/16/2011 47 BO 141 BW 122 MCF
111	TEX-MACK #231	231	30-015-38164	5290'-5565', 5770'-5970', 6040'-6240', 6310'-6510'	IP 5/14/2011 129 BO 1043 BW 114 MCF
112	TEX-MACK #236	236	30-015-38165	5209'-5475', 5636'-5892', 5962'-6162', 6232'-6432'	IP 2/9/2011 147 BO 643 BW 125 MCF

No.	Lease Name	Well No.	API No.	Operator	Location			Well Type	Well Status	Spud Date	Total Depth	Surface Casing					Production Casing				
					UL	Sec, Twp, Rge	Footage Calls					Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC	Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC
113	TEX-MACK #237	237	30-015-38166	COG OPERATING LIMITED LIABILITY CORP	H	S:2, T:17S, R:31E	1650 FNL, 790 FEL	OIL	ACTIVE	12/6/1918	6915'	17-1/2"	13-3/8"	490'	500	SURFACE	11"	8-5/8"	1915'	600	SURFACE
114	TEX-MACK #241	241	30-015-38167	COG OPERATING LIMITED LIABILITY CORP	G	S:2, T:17S, R:31E	1650 FNL, 2245 FEL	OIL	ACTIVE	7/4/1918	6760'	17-1/2"	13-3/8"	446'	500	SURFACE	11"	8-5/8"	1890'	550	SURFACE
115	TEX-MACK #214	214	30-015-38367	COG OPERATING LIMITED LIABILITY CORP	P	S:2, T:17S, R:31E	300 FSL, 330 FEL	OIL	ACTIVE	12/16/1918	6925'	17-1/2"	13-3/8"	483'	500	SURFACE	11"	8-5/8"	1972'	700	SURFACE
116	TEX-MACK #249	249	30-015-38368	COG OPERATING LIMITED LIABILITY CORP	J	S:2, T:17S, R:31E	1800 FSL, 2310 FEL	OIL	ACTIVE	12/16/1918	6925'	17-1/2"	13-3/8"	495'	500	SURFACE	11"	8-5/8"	1942'	600	SURFACE
117	TEX MACK 11 FEDERAL #015	15	30-015-38375	COG OPERATING LIMITED LIABILITY CORP	C	S:11, T:17S, R:31E	330 FNL, 1650 FWL	OIL	ACTIVE	6/4/1918	6730'	17-1/2"	13-3/8"	746'	700	SURFACE	11"	8-5/8"	1953'	600	SURFACE
118	TEX MACK 11 FEDERAL #041	41	30-015-38381	CHEVRON U S A INCORPORATED	E	S:11, T:17S, R:31E	1750 FNL, 330 FWL	OIL	ACTIVE	6/21/1918	6747'	17-1/2"	13-3/8"	612'	600	SURFACE	11"	8-5/8"	1924'	600	SURFACE
119	PUCKETT NORTH #013	13	30-015-39193	HUDSON OIL COMPANY OF TEXAS	E	S:12, T:17S, R:31E	1980 FNL, 460 FWL	OIL	ACTIVE	11/13/1911	4335'	12-1/4"	8-5/8"	786'	220	SURFACE	7-7/8"	5-1/2"	4341'	950	SURFACE
120	PUCKETT NORTH #012	12	30-015-39194	HUDSON OIL COMPANY OF TEXAS	D	S:12, T:17S, R:31E	660 FNL, 660 FWL	OIL	ACTIVE	9/4/1911	4265'	12-1/4"	8-5/8"	789'	420	SURFACE	7-7/8"	5-1/2"	4270'	950	SURFACE
121	TEX-MACK #224	224	30-015-39243	COG OPERATING LIMITED LIABILITY CORP	A	S:2, T:17S, R:31E	865 FNL, 1105 FEL	OIL	ACTIVE	6/12/1918	6738'	17-1/2"	13-3/8"	745'	700	SURFACE	11"	8-5/8"	2060'	800	SURFACE
122	TEX-MACK #225	225	30-015-39244	COG OPERATING LIMITED LIABILITY CORP	D	S:2, T:17S, R:31E	1040 FNL, 990 FWL	OIL	ACTIVE	6/24/1918	6750'	17-1/2"	13-3/8"	750'	650	SURFACE	11"	8-5/8"	1910'	600	SURFACE
123	TEX MACK 11 FEDERAL #042	42	30-015-39311	CHEVRON U S A INCORPORATED	H	S:11, T:17S, R:31E	2047 FNL, 990 FEL	OIL	ACTIVE	2/28/1919	6999'	17-1/2"	13-3/8"	734'	750	SURFACE	11"	8-5/8"	1962'	600	SURFACE
124	TEX MACK 11 FEDERAL #028	28	30-015-40008	CHEVRON U S A INCORPORATED	D	S:11, T:17S, R:31E	960 FNL, 1035 FWL	OIL	ACTIVE	9/16/1918	6834'	17-1/2"	13-3/8"	662'	700	SURFACE	11"	8-5/8"	1978'	650	SURFACE
125	TEX MACK 11 FEDERAL #032	32	30-015-40009	CHEVRON U S A INCORPORATED	C	S:11, T:17S, R:31E	307 FNL, 1873 FWL	OIL	ACTIVE	9/5/1918	6823'	17-1/2"	13-3/8"	702'	750	SURFACE	11"	8-5/8"	1978'	650	SURFACE
126	TEX MACK 11 FEDERAL #057	57	30-015-40010	CHEVRON U S A INCORPORATED	E	S:11, T:17S, R:31E	2125 FNL, 941 FWL	OIL	ACTIVE	10/13/1918	6861'	17-1/2"	13-3/8"	661'	650	SURFACE	11"	8-5/8"	1938'	750	SURFACE
127	TEX MACK 11 FEDERAL #061	61	30-015-40011	CHEVRON U S A INCORPORATED	F	S:11, T:17S, R:31E	1800 FNL, 1757 FWL	OIL	ACTIVE	7/19/1918	6775'	17-1/2"	13-3/8"	659'	500	SURFACE	11"	8-5/8"	1937'	600	SURFACE
130	NOSLER FEDERAL #005	5	30-015-40830	BURNETT OIL COMPANY INCORPORATED	D	S:12, T:17S, R:31E	330 FNL, 330 FWL	OIL	ACTIVE	6/16/1918	6742'	14-3/4"	10-3/4"	812'	600	SURFACE	8-3/4"	7"	6742'	1700	SURFACE
131	LEA C FEDERAL #019	19	30-015-40998	VINTAGE DRILLING COMPANY	D	S:11, T:17S, R:31E	1210 FNL, 1310 FWL	OIL	ACTIVE	2/12/1912	4426'	12-1/4"	8-5/8"	687'	450	SURFACE	7-7/8"	5-1/2"	4426'	955	SURFACE
132	WILSON #003	3	30-015-41017	ROVER OPERATING, LLC	J	S:2, T:17S, R:31E	2310 FSL, 1575 FEL	OIL	ACTIVE	11/30/1910	3987'	12-1/4"	8-5/8"	714'	500	SURFACE	7-7/8"	5-1/2"	3977'	725	SURFACE
133	HUSTATE #004	4	30-015-41312	ROVER OPERATING, LLC	L	S:36, T:16S, R:31E	2180 FSL, 780 FWL	OIL	ACTIVE	2/11/1911	4060'	12-1/4"	8-5/8"	552'	350	SURFACE	7-7/8"	5-1/2"	4045'	775	SURFACE
134	CEDAR LAKE FEDERAL CA #131H	131H	30-015-41912	APACHE CORPORATION	D	S:10, T:17S, R:31E	545 FNL, 475 FWL	OIL	NEW	9491'	9491'	17-1/2"	13-3/8"	640'	670	SURFACE	11"	8-5/8"	3500'	840	SURFACE
135	CEDAR LAKE FEDERAL CA #132H	132H	30-015-41913	APACHE CORPORATION	D	S:10, T:17S, R:31E	480 FNL, 475 FWL	OIL	NEW	7/18/1927	10061'	17-1/2"	13-3/8"	640'	670	SURFACE	11"	8-5/8"	3500'	840	SURFACE
136	CEDAR LAKE FEDERAL CA #126H	126H	30-015-41942	APACHE CORPORATION	H	S:10, T:17S, R:31E	1650 FNL, 330 FEL	OIL	ACTIVE	1/24/1928	10251'	17-1/2"	13-3/8"	702'	760	SURFACE	11"	8-5/8"	3502'	1210	SURFACE
138	CEDAR LAKE FEDERAL CA #125H	125H	30-015-41944	APACHE CORPORATION	H	S:10, T:17S, R:31E	1680 FNL, 330 FEL	OIL	ACTIVE	10/18/1926	9788'	17-1/2"	13-3/8"	725'	760	SURFACE	11"	8-5/8"	3500'	1180	SURFACE
139	SHINER BOCK 1 FEDERAL COM #008H	8H	30-015-42015	COG OPERATING LIMITED LIABILITY CORP	P	S:2, T:17S, R:31E	990 FSL, 150 FWL	OIL	ACTIVE	7/5/1927	10048'	17-1/2"	13-3/8"	793'	625	SURFACE	12-1/4"	9-5/8"	2095'	650	SURFACE
140	SHINER BOCK 1 FEDERAL COM #027H	27H	30-015-42022	COG OPERATING LIMITED LIABILITY CORP	M	S:1, T:17S, R:31E	1160 FSL, 170 FWL	OIL	ACTIVE	6/19/1929	10763'	17-1/2"	13-3/8"	841'	775	SURFACE	12-1/4"	9-5/8"	2089'	775	SURFACE
141	CEDAR LAKE FEDERAL CA #335H	335H	30-015-42140	APACHE CORPORATION	M	S:3, T:17S, R:31E	930 FSL, 557 FWL	OIL	ACTIVE	11/25/1925	9461'	17-1/2"	13-3/8"	650'	7100	SURFACE	12-1/4"	9-5/8"	3500'	1410	SURFACE
142	CEDAR LAKE FEDERAL CA #337H	337H	30-015-42142	APACHE CORPORATION	M	S:3, T:17S, R:31E	995 FSL, 525 FWL	OIL	ACTIVE	5/27/1927	10009'	17-1/2"	13-3/8"	658'	920	SURFACE	12-1/4"	9-5/8"	3507'	1410	SURFACE
143	CEDAR LAKE FEDERAL CA #339H	339H	30-015-42144	APACHE CORPORATION	M	S:3, T:17S, R:31E	1060 FSL, 492 FWL	OIL	NEW	8/31/1928	10471'	17-1/2"	13-3/8"	650'	660	SURFACE	12-1/4"	9-5/8"	3500'	890	SURFACE
145	HUMMINGBIRD SOUTH FEDERAL COM #001H	1H	30-015-42631	APACHE CORPORATION	L	S:1, T:17S, R:31E	1650 FSL, 1300 FWL	OIL	ACTIVE	11/8/1927	10174'	17-1/2"	13-3/8"	800'	700	SURFACE	12-1/4"	9-5/8"	3750'	1450	SURFACE
146	HUMMINGBIRD SOUTH FEDERAL COM #002H	2H	30-015-42632	APACHE CORPORATION	L	S:1, T:17S, R:31E	1750 FSL, 1300 FWL	OIL	ACTIVE	1/14/1929	10607'	17-1/2"	13-3/8"	800'	700	SURFACE	12-1/4"	9-5/8"	3750'	1450	SURFACE
147	HUMMINGBIRD SOUTH FEDERAL COM #003H	3H	30-015-42633	APACHE CORPORATION	L	S:1, T:17S, R:31E	1850 FSL, 1300 FWL	OIL	NEW	1/31/1927	9893'	17-1/2"	13-3/8"	800'	890	SURFACE	12-1/4"	9-5/8"	3750'	1070	SURFACE
148	HUMMINGBIRD SOUTH FEDERAL COM #004H	4H	30-015-42634	APACHE CORPORATION	L	S:1, T:17S, R:31E	2110 FSL, 1300 FWL	OIL	NEW	1/31/1927	9893'	17-1/2"	13-3/8"	800'	890	SURFACE	12-1/4"	9-5/8"	3750'	1070	SURFACE
149	HUMMINGBIRD SOUTH FEDERAL COM #005H	5H	30-015-42635	APACHE CORPORATION	L	S:1, T:17S, R:31E	2210 FSL, 1300 FWL	OIL	NEW	8/14/1925	9358'	17-1/2"	13-3/8"	800'	890	SURFACE	12-1/4"	9-5/8"	3750'	1070	SURFACE
150	HUMMINGBIRD SOUTH FEDERAL COM #006H	6H	30-015-42636	APACHE CORPORATION	L	S:1, T:17S, R:31E	2310 FSL, 1300 FWL	OIL	NEW	8958'	8958'	17-1/2"	13-3/8"	800'	890	SURFACE	12-1/4"	9-5/8"	3750'	1070	SURFACE
151	CEDAR LAKE FEDERAL CA #343H	343H	30-015-42745	APACHE CORPORATION	L	S:3, T:17S, R:31E	2298 FSL, 10 FWL	OIL	ACTIVE	10/20/1928	10521'	17-1/2"	13-3/8"	650'	710	SURFACE	11"	9-5/8"	3500'	1410	SURFACE
152	CEDAR LAKE FEDERAL CA #345H	345H	30-015-42747	APACHE CORPORATION	L	S:3, T:17S, R:31E	2363 FSL, 10 FWL	OIL	NEW	1/0/1900		17-1/2"	13-3/8"	650'	650	SURFACE	12-1/4"	9-5/8"	3500'	1000	SURFACE
153	CEDAR LAKE FEDERAL CA #341H	341H	30-015-42763	APACHE CORPORATION	L	S:3, T:17S, R:31E	2233 FSL, 10 FWL	OIL	ACTIVE	4/14/1927	9966'	17-1/2"	13-3/8"	652'	710	SURFACE	12-1/4"	9-5/8"	3500'	1410	SURFACE
154	HUMMINGBIRD FEDERAL COM #007H	7H	30-015-43050	APACHE CORPORATION	E	S:1, T:17S, R:31E	2310 FNL, 100 FWL	OIL	ACTIVE	6/20/1927	10033'	17-1/2"	13-3/8"	810'	850	SURFACE	12-1/4"	9-5/8"	3760'	1450	SURFACE
155	HUMMINGBIRD FEDERAL COM #008H	8H	30-015-43051	APACHE CORPORATION	E	S:1, T:17S, R:31E	2210 FNL, 100 FWL	OIL	ACTIVE	10/19/1928	10520'	17-1/2"	13-3/8"	800'	850	SURFACE	12-1/4"	9-5/8"	3748'	1450	SURFACE
156	HUMMINGBIRD FEDERAL COM #009H	9H	30-015-43052	APACHE CORPORATION	E	S:1, T:17S, R:31E	2110 FNL, 100 FWL	OIL	NEW	3/											

No.	Lease Name	Well No.	API No.	Overall Perf Interval	Comments
113	TEX-MACK #237	237	30-015-38166	5305'-5555', 5760'-5960', 6030'-6230', 6300'-6500'	IP 5/19/2011 99 BO 723 BW 74 MCF
114	TEX-MACK #241	241	30-015-38167	5270'-5520', 5730'-5930', 6000'-6200', 6270'-6470'	IP 9/5/2011 68 BO 98 BW 93 MCF
115	TEX-MACK #214	214	30-015-38367	5300'-5550', 5710'-5910', 6000'-6250', 6350'-6550'	IP 10/3/2011 16 BO 276 BW 17 MCF
116	TEX-MACK #249	249	30-015-38368	5260'-5510', 5730'-5930', 6000'-6200', 6270'-6470'	IP 7/8/2011 176 BO 754 BW 125 MCF
117	TEX MACK 11 FEDERAL #015	15	30-015-38375	5235'-5435', 5725'-5925', 5995'-6195', 6265'-6465'	IP 8/4/2011 85 BO 197 BW 102 MCF
118	TEX MACK 11 FEDERAL #041	41	30-015-38381	5225'-5400', 5640'-5744', 6010'-6210', 6280'-6480'	NO IP FOUND
119	PUCKETT NORTH #013	13	30-015-39193	3567'-3661', 3725'-4137'	IP 1/17/2012 35 BO 168 BW 4 MCF
120	PUCKETT NORTH #012	12	30-015-39194	3514'-3670', 3761'-4109'	IP 1/17/2012 73 BO 76 BW 36 MCF
121	TEX-MACK #224	224	30-015-39243	5300'-5550', 5620'-5860', 5930'-6170', 6250'-6490'	IP 10/31/2011 61 BO 506 BW 74 MCF
122	TEX-MACK #225	225	30-015-39244	5240'-5490', 5620'-5820', 5920'-6180', 6250'-6450'	IP 10/15/2011 88 BO 663 BW 72 MCF
123	TEX MACK 11 FEDERAL #042	42	30-015-39311	5330'-5580', 5760'-5960', 6030'-6230', 6300'-6550'	NO IP FOUND
124	TEX MACK 11 FEDERAL #028	28	30-015-40008	5200'-5330', 5620'-5830', 5900'-6110', 6180'-6390'	IP 8/19/2012 114 BO 285 BW 45 MCF
125	TEX MACK 11 FEDERAL #032	32	30-015-40009	5290'-5540', 5810'-6010', 6080'-6280', 6350'-6550'	NO IP FOUND
126	TEX MACK 11 FEDERAL #057	57	30-015-40010	5240'-5490', 5640'-5890', 5985'-6185', 6255'-6480'	IP 8/22/2012 59 BO 240 BW 29 MCF
127	TEX MACK 11 FEDERAL #061	61	30-015-40011	5310'-5560', 5710'-6018', 6100'-6300', 6370'-6570'	IP 8/23/2012 81 BO 243 BW 35 MCF
130	NOSLER FEDERAL #005	5	30-015-40830	5752'-5968', 6010'-6300' (OPEN HOLE)	IP 10/27/2014 115 BO 600 BW 143 MCF
131	LEA C FEDERAL #019	19	30-015-40998	3445'-4266'	IP 3/8/2013 61 BO 157 BW 1 MCF
132	WILSON #003	3	30-015-41017	2375'-2670', 3543'-3671', 3722'-3842'	IP 10/20/2013 12 BO 66 BW
133	HUSTATE #004	4	30-015-41312	3563'-3714', 3755'-3928'	IP 7/13/2013 15 BO 52 BW
134	CEDAR LAKE FEDERAL CA #131H	131H	30-015-41912	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
135	CEDAR LAKE FEDERAL CA #132H	132H	30-015-41913	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
136	CEDAR LAKE FEDERAL CA #126H	126H	30-015-41942	6073'-9900', 9962'-10180'	IP 8/27/2014 566 BO 2185 BW 226 MCF
138	CEDAR LAKE FEDERAL CA #125H	125H	30-015-41944	5800'-9740'	IP 8/26/2014 587 BO 1882 BW 481 MCF
139	SHINER BOCK 1 FEDERAL COM #008H	8H	30-015-42015	5722'-9914'	IP 8/6/2014 514 BO 3005 BW 704 MCF
140	SHINER BOCK 1 FEDERAL COM #027H	27H	30-015-42022	6311'-10657'	IP 10/1/2015 380 BO 1509 BW 171 MCF *DIRECTIONAL
141	CEDAR LAKE FEDERAL CA #335H	335H	30-015-42140	5633'-9279'	IP 11/21/2014 10 BO 2649 BW 25 MCF (MULT FILES HAD 7100 sxs for 13-3/8" CSG)
142	CEDAR LAKE FEDERAL CA #337H	337H	30-015-42142	6166'-9834'	IP 11/30/2014 121 BO 2687 BW 66 MCF
143	CEDAR LAKE FEDERAL CA #339H	339H	30-015-42144	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
145	HUMMINGBIRD SOUTH FEDERAL COM #001H	1H	30-015-42631	3500'-5831', 5831'-10147'	IP 8/8/2015 412 BO 1648 BW 763 MCF *DIRECTIONAL
146	HUMMINGBIRD SOUTH FEDERAL COM #002H	2H	30-015-42632	3500'-6430', 6430'-10580'	IP 8/8/2015 602 BO 1618 BW 659 MCF *DIRECTIONAL
147	HUMMINGBIRD SOUTH FEDERAL COM #003H	3H	30-015-42633	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
148	HUMMINGBIRD SOUTH FEDERAL COM #004H	4H	30-015-42634	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
149	HUMMINGBIRD SOUTH FEDERAL COM #005H	5H	30-015-42635	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
150	HUMMINGBIRD SOUTH FEDERAL COM #006H	6H	30-015-42636	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
151	CEDAR LAKE FEDERAL CA #343H	343H	30-015-42745	5344'-6111', 6111'-10485'	IP 7/4/2015 328 BO 2064 BW 449 MCF *DIRECTIONAL
152	CEDAR LAKE FEDERAL CA #345H	345H	30-015-42747	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
153	CEDAR LAKE FEDERAL CA #341H	341H	30-015-42763	3500'-5543', 5543'-9966'	IP 6/25/2015 177 BO 167 BW 118 MCF *DIRECTIONAL
154	HUMMINGBIRD FEDERAL COM #007H	7H	30-015-43050	5837'-10009'	IP 5/9/2016 455 BO 2371 BW 1013 MCF *DIRECTIONAL
155	HUMMINGBIRD FEDERAL COM #008H	8H	30-015-43051	6213'-10486'	IP 5/10/2016 362 BO 1795 BW 325 MCF *DIRECTIONAL
156	HUMMINGBIRD FEDERAL COM #009H	9H	30-015-43052	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
157	CEDAR LAKE FEDERAL CA #146H	146H	30-015-43407	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
158	CEDAR LAKE FEDERAL CA #147H	147H	30-015-43408	6204'-10007'	IP 9/23/2016 301 BO 842 BW 407 MCF *DIRECTIONAL
159	CEDAR LAKE FEDERAL CA #148H	148H	30-015-43409	5777'-9613'	IP 9/24/2016 301 BO 838 BW 427 MCF *DIRECTIONAL
160	NOSLER 12 FEDERAL EG #006H	6H	30-015-43421	6060'-9099'	IP 9/20/2016 481 BO 2008 BW 373 MCF *DIRECTIONAL
161	NOSLER 12 FEDERAL DB #004H	4H	30-015-43422	N/A	IP 5/23/2016 300 BO 1942 BW 256 MCF *DIRECTIONAL
162	HUMMINGBIRD FEDERAL COM #010H	10H	30-015-43458	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
163	HUMMINGBIRD FEDERAL COM #011H	11H	30-015-43459	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
164	HUMMINGBIRD FEDERAL COM #012H	12H	30-015-43461	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
165	HUMMINGBIRD FEDERAL COM #016H	16H	30-015-43481	5817'-10047'	IP 8/4/2017 237 BO 1828 BW 327 MCF *DIRECTIONAL
166	HUMMINGBIRD FEDERAL COM #017H	17H	30-015-43482	6198'-10429'	IP 8/4/2017 150 BO 1573 BW 102 MCF *DIRECTIONAL
167	HUMMINGBIRD FEDERAL COM #013H	13H	30-015-43483	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
168	HUMMINGBIRD FEDERAL COM #014H	14H	30-015-43484	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
169	HUMMINGBIRD FEDERAL COM #015H	15H	30-015-43485	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
170	HUMMINGBIRD FEDERAL COM #018H	18H	30-015-43486	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL
180	PUCKETT 12 FEDERAL #003H	3H	30-015-39183	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP
183	TEX MACK 11 FEDERAL #058	58	30-015-39312	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP

No.	Lease Name	Well No.	API No.	Operator	Location			Well Type	Well Status	Spud Date	Total Depth	Surface Casing					Production Casing				
					UL	Sec, Twp, Rge	Footage Calls					Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC	Hole Size	Casing Size	Setting Depth	Sacks Cmt	TOC
185	PUCKETT 12 FEDERAL #001H	1H	30-015-39474	COG OPERATING LIMITED LIABILITY CORP	M	S:12, T:17S, R:31E	75 FSL, 330 FWL	OIL	NEW	12/13/1929	10940'	17-1/2"	13-3/8"	700'	450	SURFACE	12-1/4"	9-5/8"	2000'	500	SURFACE
186	PUCKETT 12 FEDERAL #002H	2H	30-015-39475	COG OPERATING LIMITED LIABILITY CORP	D	S:12, T:17S, R:31E	110 FNL, 990 FWL	OIL	NEW	10/5/1930	11236'	17-1/2"	13-3/8"	770'	450	SURFACE	12-1/4"	9-5/8"	2050'	500	SURFACE
193	CEDAR LAKE FEDERAL CA #408H	408H	30-015-43519	APACHE CORPORATION	A	S:4, T:17S, R:31E	1148 FNL, 967 FEL	OIL	NEW	4/29/1933	12173'	17-1/2"	13-3/8"	650'	270	SURFACE	12-1/4"	9-5/8"	3500'	690	SURFACE
194	CEDAR LAKE FEDERAL CA #410H	410H	30-015-43521	APACHE CORPORATION	A	S:4, T:17S, R:31E	1083 FNL, 959 FEL	OIL	NEW	7/7/1931	11511'	17-1/2"	13-3/8"	415'	270	SURFACE	12-1/4"	9-5/8"	3500'	690	SURFACE
195	CEDAR LAKE FEDERAL CA #412H	412H	30-015-43523	APACHE CORPORATION	A	S:4, T:17S, R:31E	1019 FNL, 952 FEL	OIL	NEW	5/5/1930	11083'	17-1/2"	13-3/8"	650'	270	SURFACE	12-1/4"	9-5/8"	3500'	690	SURFACE
196	CEDAR LAKE FEDERAL CA #304H	304H	30-015-43557	APACHE CORPORATION	E	S:3, T:17S, R:31E	1790 FNL, 147 FWL	OIL	NEW	1/7/1928	10234'	17-1/2"	13-3/8"	650'	270	SURFACE	12-1/4"	9-5/8"	3500'	690	SURFACE
197	CEDAR LAKE FEDERAL CA #302H	302H	30-015-43560	APACHE CORPORATION	E	S:3, T:17S, R:31E	1855 FNL, 173 FWL	OIL	NEW	11/10/1926	9811'	17-1/2"	13-3/8"	650'	270	SURFACE	12-1/4"	9-5/8"	3500'	690	SURFACE
198	CEDAR LAKE FEDERAL CA #306H	306H	30-015-43562	APACHE CORPORATION	E	S:3, T:17S, R:31E	1725 FNL, 120 FWL	OIL	NEW	11/30/1929	10927'	17-1/2"	13-3/8"	415'	270	SURFACE	12-1/4"	9-5/8"	3500'	690	SURFACE
200	SHINER BOCK 1 FEDERAL COM #028H	28H	30-015-43913	COG OPERATING LIMITED LIABILITY CORP	M	S:1, T:17S, R:31E	445 FSL, 52 FWL	OIL	ACTIVE	3/20/1929	10672'	17-1/2"	13-3/8"	809'	625	SURFACE	12-1/4"	9-5/8"	2146'	575	SURFACE

No.	Lease Name	Well No.	API No.	Overall Perf Interval	Comments
185	PUCKETT 12 FEDERAL #001H	1H	30-015-39474	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
186	PUCKETT 12 FEDERAL #002H	2H	30-015-39475	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
193	CEDAR LAKE FEDERAL CA #408H	408H	30-015-43519	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
194	CEDAR LAKE FEDERAL CA #410H	410H	30-015-43521	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
195	CEDAR LAKE FEDERAL CA #412H	412H	30-015-43523	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
196	CEDAR LAKE FEDERAL CA #304H	304H	30-015-43557	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
197	CEDAR LAKE FEDERAL CA #302H	302H	30-015-43560	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
198	CEDAR LAKE FEDERAL CA #306H	306H	30-015-43562	0	ALL DATA IS ONLY PROPOSED & NOT FROM WELL COMP *DIRECTIONAL (7" CSG LEAD PROD)
200	SHINER BOCK 1 FEDERAL COM #028H	28H	30-015-43913	6319'-10570'	IP 1/11/2017 238 BO 2021 BW 301 MCF *DIRECTIONAL

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

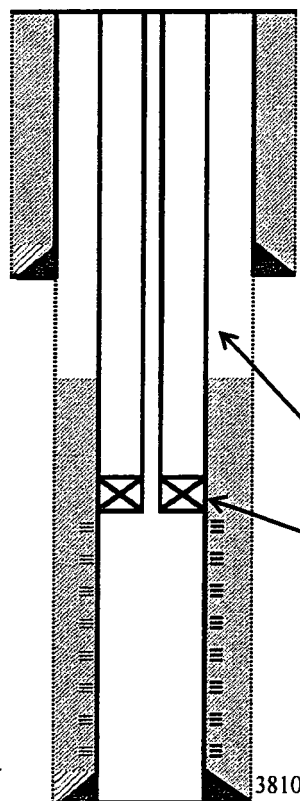
Side 1

OPERATOR: ROVER OPERATING, LLC

WELL NAME & NUMBER: WILSON No. 2

WELL LOCATION: 1650' FSL & 2310' FEL J 2 17S 31E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC



2-3/8" 4.7# J-55
Internally Plastic
Coated Tubing set
on Baker Model
AD-1 Tension
Packer (or
equivalent model),
set within 50' of
top perforation

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 300 sx. or _____ ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: N/A Casing Size: N/A

Cemented with: N/A sx. or _____ ft³

Top of Cement: N/A Method Determined: N/A

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 150 sx. or _____ ft³

Top of Cement: 2850' Method Determined: CBL

Total Depth: 3810'

Injection Interval

3432' feet to 3780' (PERFORATED)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" Lining Material: IPC-1505

Type of Packer: Baker AD-1 (or equivalent)

Packer Setting Depth: +/- 3450'

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? Yes x No

If no, for what purpose was the well originally drilled? Primary oil production

2. Name of the Injection Formation: Loco Hills / Grayburg

3. Name of Field or Pool (if applicable): Grayburg Jackson – 7Rivers-Queen-GB-SA; Pool #: 28509

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: YATES @ 1985' MD

YESO @ 5210' MD

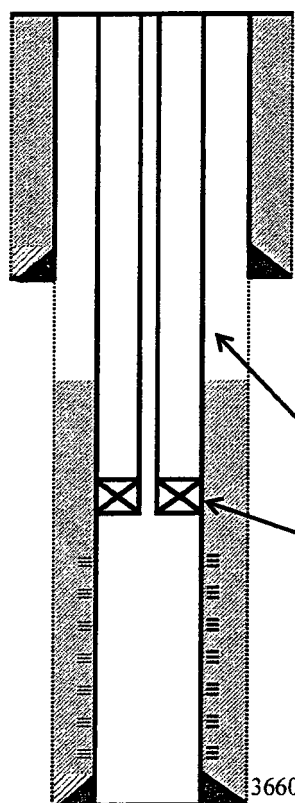
Side 1

OPERATOR: ROVER OPERATING, LLC

WELL NAME & NUMBER: FEATHERSTONE CBS No. 2

WELL LOCATION: 2310' FNL & 1650' FWL F 2 17S 31E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC



2-3/8" 4.7# J-55
Internally Plastic
Coated Tubing set
on Baker Model
AD-1 Tension
Packer (or
equivalent model),
set within 50' of
top perforation

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11" Casing Size: 9-5/8"

Cemented with: 300 sx. or ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: N/A Casing Size: N/A

Cemented with: N/A sx. or ft³

Top of Cement: N/A Method Determined: N/A

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 150 sx. or ft³

Top of Cement: 2650' Method Determined: Calc'd

Total Depth: 3660'

Injection Interval

3424' feet to 3646' (PERFORATED)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: **2-3/8"** Lining Material: **IPC-1505**

Type of Packer: **Baker AD-1 (or equivalent)**

Packer Setting Depth: +/- 3475'

Other Type of Tubing/Casing Seal (if applicable): **N/A**

Additional Data

1. Is this a new well drilled for injection? Yes ☒ No ☐

If no, for what purpose was the well originally drilled? **Primary oil production**

2. Name of the Injection Formation: **Loco Hills / Grayburg**

3. Name of Field or Pool (if applicable): **Grayburg Jackson – 7Rivers-Queen-GB-SA; Pool #: 28509**

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: **YATES @ 2000' MD**

YESO @ 5250' MD

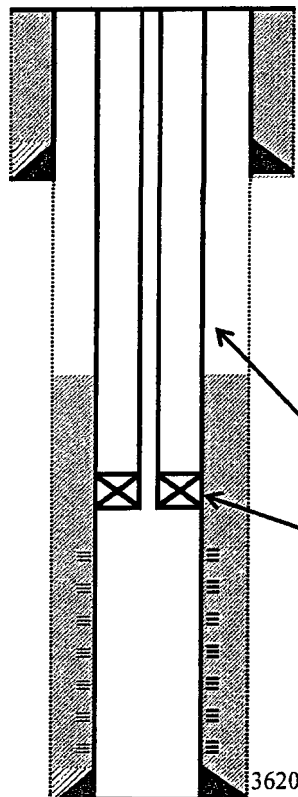
Side 1

OPERATOR: ROVER OPERATING, LLC

WELL NAME & NUMBER: TIDEWATER K STATE No. 4

WELL LOCATION: 1976' FNL & 660' FEL H 2 17S 31E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC



2-3/8" 4.7# J-55
Internally Plastic
Coated Tubing set
on Baker Model
AD-1 Tension
Packer (or
equivalent model),
set within 50' of
top perforation

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11 Casing Size: 8-5/8"

Cemented with: 140 sx. or ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: N/A Casing Size: N/A

Cemented with: N/A sx. or ft³

Top of Cement: N/A Method Determined: N/A

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 175 sx. or ft³

Top of Cement: 2720' Method Determined: Calc'd

Total Depth: 3853'

Injection Interval

3487' feet to 3825' (PERFORATED)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" Lining Material: IPC-1505

Type of Packer: Baker AD-1 (or equivalent)

Packer Setting Depth: +/- 3550'

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? Yes x No

If no, for what purpose was the well originally drilled? Primary oil production

2. Name of the Injection Formation: Loco Hills / Grayburg

3. Name of Field or Pool (if applicable): Grayburg Jackson – 7Rivers-Queen-GB-SA; Pool #: 28509

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: YATES @ 2050' MD

YESO @ 5300' MD

VII). Attach data on the proposed operation, including:

1) Proposed average and maximum daily rate and volume of fluids to be injected

Rover Operating, LLC proposes average and maximum daily rates, on a per well basis, of water injection as follows:

- Average: 300 BWPD ("barrels of water per day per well")
- Maximum: 500 BWPD

2) Whether the system is open or closed

The RP State Unit waterflood station will be a closed system. Oil will continue to be produced into the separate batteries at each individual lease, while water will be consolidated to a single waterflood station, which is planned to be located at the current site of the Wilson battery.

3) Proposed average and maximum injection pressure

Rover Operating, LLC, proposes average and maximum injection pressures for the RP State Unit water injection of:

- Average: 1900 psig
- Maximum: 2200 psig

4) Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water

Rover Operating, LLC, is actively engaging in conversations with COG in which Rover is provided up to 1200 BWPD (barrels of water per day) to the RP State Waterflood Station (to be located at the current site of the Wilson battery), where it will be comingled, chemically treated as necessary, and injected with the produced water from the RP State wells. A water analysis and compatibility test with the produced water from each of the leases within the RP State Unit, as well as the produced water from COG's Tex-Mack lease, is included in this application.

5) If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.)

The RP State Unit water injection wells covered by this application is to be used for Secondary Recovery and not for disposal purposes. This requirement does not apply to this application.

IX). Describe the proposed stimulation program, if any.

The RP State Unit water injection wells will be acidized in the perforated formations of the wellbore (3450' – 3700') with 15,000 gal 15% NEFE HCl (xx gal/ft) and 4000 lb rock salt. The acid will be applied in 5 equal stages of 3000 gal per stage, with each stage separated by 1000 lb rock salt. After stimulation is complete and the load has been flowed or swabbed back, a step-rate test will be performed to determine if further stimulation is required to achieve the desired injectivity.

XI). Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

Rover Operating, LLC, has investigated the area within a one-mile radius of the proposed RP State Unit water injection wells and has determined there to be no fresh water wells currently producing within the area.



P.O. Box 3394, Midland, Texas 79702
Phone (432) 684-4233 Fax (432) 684-4277

Water Analysis

Code 205043

Client Information

COG Operating LLC

County:

Lea

Rep:

Derrick Boutwell

Sample Information

Lease/Well: Tex Mack/T/B

Sample Point: T/B

Date Sampled: 04/09/2018

Date Reported: 04/11/2018

Results

Cations

Ion	Concentration(mg/L)
Barium (as Ba)	0
Calcium (as Ca)	2818
Iron (as Fe)	0
Sodium (as Na)	45850
Magnesium (as Mg)	3551

Other Measurements

Measurement	Value
pH	5.79
SG	1.1898
Turbidity	79
CO ₂	
Total Dissolved Solids	233513.000

Anions

Ion	Concentration(mg/L)
Chlorides (as Cl)	180950
Sulfate (as SO ₄)	100
Carbonate (as CO ₃)	0
Bicarbonates (as HCO ₃)	244
Sulfide (as S ₂ -)	0

Scaling Indices

Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	0.1045	0.0000	0.0000	-29.2075
120	1.0968	0.0000	0.0000	-29.4235
160	1.2664	0.0000	0.0000	-29.6533
200	2.1883	0.0000	0.0000	-29.8906
250	2.7764	0.0000	0.0000	-30.1220

Low = < 0.200, Moderate = 0.200-0.999, High = > 1.00

Comments



P.O. Box 3394, Midland, Texas 79702
Phone (432) 684-4233 Fax (432) 684-4277

Water Analysis

Code 205039

Client Information

Sample Information

Rover Operating County:	Lea	Lease/Well:	Tidewater K State/T/B
Rep:	Derrick Boutwell	Sample Point:	T/B
		Date Sampled:	04/04/2018
		Date Reported:	04/11/2018

Results

Cations

Ion	Concentration(mg/L)
Barium (as Ba)	0
Calcium (as Ca)	25340
Iron (as Fe)	243
Sodium (as Na)	30810
Magnesium (as Mg)	3178

Other Measurements

Measurement	Value
pH	6.38
SG	1.1228
Turbidity	368
CO ₂	
Total Dissolved Solids	188861.000

Anions

Ion	Concentration(mg/L)
Chlorides (as Cl)	128300
Sulfate (as SO ₄)	575
Carbonate (as CO ₃)	0
Bicarbonates (as HCO ₃)	415
Sulfide (as S ²⁻)	0

Scaling Indices

Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	2.0605	0.0253	0.0147	-29.2897
120	3.0771	0.0204	0.0119	-29.4943
160	3.1572	0.0185	0.0107	-29.7241
200	4.0747	0.0154	0.0089	-29.9743
250	4.6603	0.0107	0.0062	-30.2457

Low = < 0.200, Moderate = 0.200-0.999, High = > 1.00

Comments

PROPOSED ADVERTISEMENT

Case No. 16355 :

Application of Rover Operating, LLC for approval of a secondary recovery project, Eddy County, New Mexico. Applicant seeks approval to institute a secondary recovery project in the RP State Unit Area by the injection of water into the Unitized Formation (the top of the Loco Hills Sand to the base of the Lovington Sand) in wells located on 639.60 acres of state lands covering all or parts of Section 2, Township 17 South, Range 31 East, N.M.P.M. The unit area is centered approximately 8-1/2 miles northeast of Loco Hills, New Mexico.