District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV

New Mexico
Ener Minerals and Natural Resourc Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 11/1

Submit Orig
Plus 2 Co
to appropr
District Of

14-0505

APPLICATION FOR
QUALIFICATION OF WELL WORKOVER PROJECT
AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE OIL CONSERVATION DIVISION.

I. Operator: Enron Oil & Gas Company OGRID #: 7377

Address: P.O. Box 2267, Midland, Texas, 79702

Contact Party: Lee Roark Phone: 915/686-3608

II. Name of Well: Half 6 Federal No. 2 API #: 3002532611
Location of Well: Unit Letter N, 510 Feet from the South line and 1980 feet from the West line,
Section 6, Township 25S, Range 34E, NMPM, Lea County

III. Date Workover Procedures Commenced: 12/12/97
Date Workover Procedures were Completed: 12/25/97

IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.

V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.

VI. Pool(s) on which Production Projection is based:

Red Hills (Bone Spring)

VII. AFFIDAVIT:

State of Texas)
) ss.
County of Midland)

Lee Roark, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.

2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.

3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

M. Lee Roark
(Name)

Engineer Tech
(Title)

SUBSCRIBED AND SWORN TO before me this 9th day of October, 1998

PEGGY C. LAVINE
Notary Public, State of Texas
My Commission Expires 1-21-98

Peggy C. Lavine
Notary Public

My Commission expires: _____

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 12-25, 1997

District Supervisor, District I
Oil Conservation Division

Date: 10/15/98

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.

DATE: _____

HALF 6 FEDERAL NO. 2
510'FSL & 1,980' FWL
Sec 6, T25S, R34E
LEA Co., NM
Spud Date: 09/28/94
Nearest Lease Line: 510'

ENRON OIL & GAS COMPANY
DEV W/O: 12,600' BONE SPRING
RED HILLS Field
EOG%: 95.3183% WI 77.4461% NRI
AFE No.: 10-1447
DHC: 0; CWC: 166,000

12/12/97 Install surface and subsurface pumping equipment to return well to production.

12 hrs W.T.G. loaded, hauled & set 456 CMT Pumping Unit. Fulfer Electric set 4 Deadman Anchors. DWC $41,365. CWC $41,365.

12/13/97 Drop from report until further activity. CWC $41,365.

12/21/97 5-1/2" 17# csg @ 12,600', 5-1/2", 17# csg perfs 12,270-330' and 12,364-390'. Workover to clean out, run tbg, downhole pump and rods and place on pump. 4 hrs MI&RU Cobra well service, righ #160. ND WH and NU BOP. Shut down due to weather. DWC $77,600. CWC $118,965.

12/22/97 1 hr RU to run tbg. Tally tbg. 7 hrs TIH with 2-7/8" O.D., N-80, 6.5#, 8rd, EUE tbg with 4-3/4" bit /tbg disc. Tag fill on the 391st jt @ 12,383'. Had 7' of fill above btm perf. 1/2 hr RU to reverse out fill in 5-1/2" csg. 3-1/2 hrs Clean out sand in 5-1/2" O.D. csg from 12,383' to 12,456' (73'). All sand with ball sealers. Circ hole clean. 3 hrs start out of hole with tbg and bit. Shut down. DWC $3,400. CWC $122,365.

12/24/97 2-1/2 hrs finish TOOH with 2-7/8" O.D. tbg and bit. 4 hrs TIH with 384 jts of 2-7/8", O.D., N-80, 6.5 lb, 8rd, EUE tbg. 1/2 hr TAC set @ 11,940' with 14 pts tension. SN @ 12,167' - 68', PN @ 12,168' - 72', BPMA = 12,172' - 12,203'. 1 hr ND BOP and NU WH. 1/2 hr RU to run rods and pump. 4 hrs start in hole with 2-1/2 X 1-1/4 X 26' X 28' X 30' RHBC, shear tool, 1" rods on bottom as sinker bars and 3/4" X 25' steel rods. SDON.

Deatail:

376 jts, 2-7/8", 6.5#, N-80, 8rd	11922.15
1 TAC, 2-7/8 X 5-1/2	2.90
7 Jts tbg, 2-7/8", 6.5#, N-80, 8rd	222.71
1 API Seating Nipple, 2-7/8 X 2-1/4	1.10
1 Perforated Nipple, 2-7/8, J-55	4.10
1 BPMA, 2-7/8, 6.5#, N-80, 8rd	31.80
Total footing picked up	12184.76
Plus KB to GL	18.00
Setting Depth at RKB	12202.76

DWC $3,900. CWC $126,265.

HALF 6 FEDERAL NO. 2
510'FSL & 1,980' FWL
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LEA Co., NM
Spud Date: 09/28/94
Nearest Lease Line: 510'

ENRON OIL & GAS COMPANY
DEV W/O: 12,600' BO SPRING
RED HILLS Field
EOG%: 95.3183% WI 77.4461% NRI
AFE No.: 10-1447
DHC: 0; CWC: 166,000

12/25/97	After SDON. 5 hrs fin TIH with down hole pump and rods, ran rods and pump as follows: 1 1-1/2" x 26' polish rod with 1-1/2" x 1-3/4" x 14' polish rod liner. 1-1" x 4' steel pony rod; trico, T-66 with spray metal box 102 1" x 25' steel rods trico, T66 with spray metal boxes. 120 7/8" x 25' steel rods, Trico, T-66 w/spray metal boxes 251 3/4 x 25' steel rods, trico, T65 with spray metal boxes. 10 1" x 25' stee rods, " " 1 1" x 1' 26K shear tool 1 1" x 2' steel pony rods; trico T66 with spray metal box 1 2-1/2 x 1-1/4 x 26' x 28' x 30' RHBC, double valve pump with 6' spray metal plunger 274" stroke and with btm discharge valve. 1 hr set pump @ 11/67: and space 24" off btm. 1/2 hr load and test tbg to 500#. Held ok. 3 hrs hang well on, rig down and release rig. 9-1/2 hrs well now pumping to production facilities @ 9-1/2 SPM and 100" stroke. DWC $5,150. CWC $131,415.
12/26/97	24 hrs pump, 110 MCF, 157 BO, 8 x 100 SPM, 120 TP, 90 CP, 6 BW, 54 LP. CWC $131,415.
12/27/97	24 hrs pump, 132 MCF, 81 BO 8 x 100 SPM, 90 TP, 70 CP, 53 BW, 50 LP. CWC $131,415.
12/28/97	24 hrs pump, 100 MCF, 111 BO, 8 x 100 SPM, 60 TP, 90 CP, 28 BW, 50 LP. CWC $131,415.
12/29/97	24 hrs pump, 104 MCF, 98 BO, 8 x 100" SPM, 70 TP, 80 CP, 30 BW, 50 LP. CWC $131,415.
12/30/97	24 hrs pump, 122 MCF, 103 BO, 8 x 100" SPM, 240 TP, 260 CP, 18 BW, 53 LP. CWC $131,415.
12/31/97	24 hrs pump, 123 MCF, 97 BO, 8 x 100" SPM, 200 TP, 220 CP, 18 BW, 58 LP. CWC $131,415.
01/01/98	24 hrs pump, 160 MCF, 95 BO, 8 x 100" SPM, 110 TP, 140 CP, 25 BW, 56 LP. CWC $131,415.
01/02/98	24 hrs pump, 170 MCF, 103 BO, 8 x 100" SPM, 120 FTP, 180 CP, 23 BW, 55 LP. CWC $131,415.
01/03/98	24 hrs pump, 228 MCF, 107 BO, 8 x 100" SPM, 110 TP, 170 CP, 28 BW, 62 LP. CWC $131,415.
01/04/98	24 hrs pump, 230 MCF, 111 BO, 8 x 100" SPM, 110 TP, 130 CP, 18 BW, 66 LP. CWC $131,415.

HALF 6 FEDERAL ! 2 ! RED HILLS
Prop 1470
OIL /m
GAS /m
GAS/OIL
WATER /m
Rate Time
Semi Log
Major = OIL
93
94
95
96
97
98
99
00
01
OIL
GAS
GAS/OIL
WATER

Half 6 Federal No. 2
Future Production Before Workover

	IP Rate at WO on 12/97	Decline(exp)
Oil	2000 BOPM	36 %/yr
Gas	2400 mcf/mo	41 %/yr

Date	Oil BOPM	Gas MCF/Mo
1/15/98	2000.0	2400.0
2/15/98	1940.9	2319.4
3/15/98	1883.5	2241.5
4/15/98	1827.9	2166.2
5/15/98	1773.8	2093.4
6/15/98	1721.4	2023.1
7/15/98	1670.5	1955.2
8/15/98	1621.2	1889.5
9/15/98	1573.3	1826.0
10/15/98	1526.8	1764.7
11/15/98	1481.6	1705.4
12/15/98	1437.8	1648.1
1/15/99	1395.4	1592.8
2/15/99	1354.1	1539.3
3/15/99	1314.1	1487.6
4/15/99	1275.3	1437.6
5/15/99	1237.6	1389.3
6/15/99	1201.0	1342.6
7/15/99	1165.5	1297.5
8/15/99	1131.1	1254.0
9/15/99	1097.6	1211.8
10/15/99	1065.2	1171.1
11/15/99	1033.7	1131.8
12/15/99	1003.2	1093.8
1/15/00	973.5	1057.0
2/15/00	944.7	1021.5
3/15/00	916.8	987.2
4/15/00	889.7	954.1
5/15/00	863.4	922.0
6/15/00	837.9	891.0
7/15/00	813.1	0.0
8/15/00	789.1	0.0
9/15/00	765.8	0.0
10/15/00	743.2	0.0
11/15/00	721.2	0.0
12/15/00	699.9	0.0
1/15/01	679.2	0.0
2/15/01	659.1	0.0
3/15/01	639.6	0.0
4/15/01	620.7	0.0
5/15/01	602.4	0.0
6/15/01	584.6	0.0
7/15/01	567.3	0.0
8/15/01	550.5	0.0
9/15/01	534.3	0.0
10/15/01	518.5	0.0
11/15/01	503.2	0.0
12/15/01	488.3	0.0
1/15/02	473.9	0.0
2/15/02	459.9	0.0
3/15/02	446.3	0.0
4/15/02	433.1	0.0
5/15/02	420.3	0.0
6/15/02	407.9	0.0
7/15/02	395.8	0.0
8/15/02	384.1	0.0
9/15/02	372.7	0.0
10/15/02	361.7	0.0
11/15/02	351.0	0.0
12/15/02	340.7	0.0
1/15/03	330.6	0.0
2/15/03	320.8	0.0
3/15/03	311.3	0.0
4/15/03	302.1	0.0
5/15/03	293.2	0.0
6/15/03	284.5	0.0
7/15/03	276.1	0.0
8/15/03	268.0	0.0
9/15/03	260.1	0.0
10/15/03	252.4	0.0
11/15/03	244.9	0.0
12/15/03	237.7	0.0
1/15/04	230.7	0.0
2/15/04	223.8	0.0
3/15/04	217.2	0.0
4/15/04	210.8	0.0
5/15/04	204.6	0.0
6/15/04	198.5	0.0
7/15/04	192.7	0.0
8/15/04	187.0	0.0
9/15/04	181.4	0.0
10/15/04	176.1	0.0
11/15/04	170.9	0.0
12/15/04	165.8	0.0
1/15/05	160.9	0.0
2/15/05	156.2	0.0
3/15/05	151.5	0.0
4/15/05	147.1	0.0
5/15/05	142.7	0.0
6/15/05	138.5	0.0
7/15/05	134.4	0.0
8/15/05	130.4	0.0
9/15/05	126.6	0.0
10/15/05	122.8	0.0
11/15/05	119.2	0.0
12/15/05	115.7	0.0
1/15/06	112.3	0.0
2/15/06	109.0	0.0
3/15/06	105.7	0.0
4/15/06	102.6	0.0
5/15/06	99.6	0.0
6/15/06	96.6	0.0
7/15/06	93.8	0.0
8/15/06	91.0	0.0
9/15/06	88.3	0.0
10/15/06	85.7	0.0
11/15/06	83.2	0.0
12/15/06	80.7	0.0
1/15/07	78.3	0.0
2/15/07	76.0	0.0
3/15/07	73.8	0.0
4/15/07	71.6	0.0
5/15/07	69.5	0.0
6/15/07	67.4	0.0
7/15/07	65.4	0.0
8/15/07	63.5	0.0
9/15/07	61.6	0.0
10/15/07	59.8	0.0
11/15/07	58.0	0.0
12/15/07	56.3	0.0
1/15/08	54.6	0.0
2/15/08	53.0	0.0
3/15/08	51.5	0.0
4/15/08	49.9	0.0
5/15/08	48.5	0.0
6/15/08	47.0	0.0
7/15/08	45.6	0.0
8/15/08	44.3	0.0
9/15/08	43.0	0.0
10/15/08	41.7	0.0
11/15/08	40.5	0.0
12/15/08	39.3	0.0
1/15/09	38.1	0.0
2/15/09	37.0	0.0
3/15/09	35.9	0.0
4/15/09	0.0	0.0