P. O. Boy Hobbs, 1 <u>District</u> 811 S. F.	NM 88241 <u>II</u> - (505)	-1980 -1980 Energ Minerals and Natural Resources Department Oil Conservation Division	Form C-14(Originated 11/1/9						
District	<u>III</u> • (505) 9 Brazos Ro M 87410	334-6178	Submit Urigina Plus 2 Copie to appropriat District Office						
		APPLICATION FOR QUALIFICATION OF WELL WORKOVER PROJECT AND CERTIFICATION OF APPROVAL							
THF OFF	REE COP	IES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROFRIAT	FE DISTRICT						
١.	Opera	ator: Enron Oil & Gas Company OGRID #: 7377							
	Addre	ess:P.O. Box 2267, Midland, Texas, 79702							
	Conta	act Party: Lee Roark Phone:915/686-3608	· · · · · · · · · · · · · · · · · · ·						
11.	Name Locat Sectio	Name of Well: <u>Diamond 18 Federal No. 5</u> Location of Well: Unit Letter $\underline{\mathcal{I}}$, 2130 Feet from the <u>South</u> line and <u>660</u> feet from the <u>East</u> line, Section <u>18</u> , Township <u>25S</u> , Range <u>34E</u> , NMPM, <u>Lea</u> <u>County</u>							
111.	DateV	Vorkover Procedures Commenced: 4/07/97 Vorkover Procedures were Completed: 10/05/97							
IV.	Attach	a description of the Workover Procedures undertaken to increase the projection from the Well.	<u>↓ · · · · · · · · · · · · · · · · · · ·</u>						
V.	Attach table s	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.) on which Production Projection is based:							
	Red	Hills (Bone Springs)							
VII.	AFFID	AVIT:							
	State ofTexas)								
	County) ss. County of <u>Midland</u>)							
	10/05/98 , 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 available and contain information relevant to the production history of this Well.	reasonably						
	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.								
		(warne)	l.						

Engineer Tech (Title)

SUBSCRIBED AND SWORN TO before me this <u>574</u> day	of <u>letstin</u> , 19 <u>-8</u>
S PEGGY C. LAVINE	Pigg C. Hilmi
Notary Public, State of Texas 8 My Commission Expires 11-21-98	Notary Public
တ်ထားသာတာသာသာသာသာသာသာသာ 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 10-6-, 1927

District Supervisor, District

4

Oil Conservation Division

10/20 Date:

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

DATE: _____

DIAMOND "18" FEDERAL NO. 2.130' FSL & 660' FEL Sec 18, T255, R34E

LEA Co., NM

Spud Date: 09/15/95

ENRON L & GAS COMPANY DEV D&C: 12,600' BONE SPRING RED HILLS Field

EOG⁶: 100.0000⁶ WI 82.5000⁶ NRI AFE No.: 10-1402 DHC: 0; CWC: 113,000

04/07/97 Run new tbg in well.

RU Dale Meyers trucking. Racked 378 jts (new) 2-7/8" tbg. M&W hot oil unit on location, pumped 100 bbls H2O down annulus. Ram WS pulling machine road to location and rigged up. Well dead, ND WH, NU BOP. Tally top raw tbg on rack. PU bit and csg scraper. TIH wtih 2-7/8" tbg. Forced to run collars very slowly through Braden head duet at 5-1/2" csg not beveled on top and tbg collars hanging up on unbeveled csg top. Ran bit and scraper to 10,880'. Close BOP, turn tbg to frac tank overnight. SDFD. DWC \$44,330.

- 04/08/97 RU Ram WS. M&W kill truck on location. 50 lbs press on tbg this a.m. Pump 35 bbls FW to kill. TIH to 12,224' tag top of fill. TOH with bit and csg scraper. TIH with production string, ran as follows: BP - MA, perf sub, SN, 7 jts 2-7/8" tbg, TAC, 376 jts 270 tbg. Landed tbg @ 12,166.34'. ND BOP. Set TAC in 15 lb tensior. NUWH. RD. DWC \$2,910. CWC \$47,240.
- 04/11/97 24 hrs SITP 60, SICP 700. CWC \$47,240.
- 04/12/97 24 hrs SITP, SICP 1100. CWC \$47,240.
- 04/13/97 24 hrs flow, 138 MCF, 170 BO, 14/64" chk, 230 TP, 900 CP, 127 BW, 28 LP. CWC \$47,240.
- 04/14/97 24 hrs flow, 112 MCF, 84 BC, 14/64" chk, 280 TP, 900 CP, 32 BW, 26 LP. CWC \$47,240.
- 04/15/97 24 hrs flow, 112 MCF, 75 BO, 14/64" chk, 200 TP, 1000 CP, 25 BW, 28 LP. Drop from report. CWC \$47,240.
- 09/20/97 Install beam pumping equipment to increase oil production by 40 BOPD and gas production by 40 MCFD. An ATAX ROR in excess of 40% and a payout less than 1.8 years is expected.

Work to run rods and down hole pump and place on pump. MI&RU Cobra WS Rig #169. ND Xmas tree. NU production tbg head. Start in hole with down hole pump and rods. SDON. DWC \$29,240. CWC \$29,240.

. uyu DIAMOND "18" FEDERAL NO. 5 ENRON OIL & GAS COMPANY 2,130' FSL & 660' FEL DEV D&C: 12,600' BONT SPRING Sec 18, T25S, R34E RED HILLS Field LEA Co., NM EOG%: 100.0000% WI 82.5000% NRI Spud Date: 09/15/95 AFE No.: 10-1402 DHC: 0; CWC: 113,000 After SDON. Finish running rods and pump. Set pump @ 12,129'. 09/21/97 Check pump for pump action, it was OK. Clamp off rocs and space pump 24" off btm. RD, clean location and release rig. Prepare to set surface pumping equipment and place or pump. Ran and set rods and pump as follows: 1 - 1-1/2" x 30' polish rod with 1-1/2 x 1-3/4 x 16' polish rod liner 1- 1" x 8' steel pony rods, T-66 Trick with spray metal boxes 113 - 1" x 25' steel pony rods, T-66 Trico with spray metal boxes. 120-7/8 x 25' steel rods 249 3/4 x 25'

1 -1" x 1' shear tool, 26K shear 1 - 1" x 2' steel pony rod with spray metal boxes. T-66 Trico. 1- 2-1/2 x 2" x 30' RHBC, 3 tube pump with 1-3/4" pkr. single 1 - 1-1/4x 16' gas anchor, valves an 220" stroke Set pump @ 12,129'. DWC \$3,700. CWC \$32,940.

- 10/02/97 10 hrs WTG set Lufkin 456-305-168 pumping unit. Base blocks and pumping unit. DWC \$45,000. CWC \$74,240.
- 10/03/97 Gibson roustabouts, broke out and drained, LP Separator and hauled to Diamond 18 fed #5. Set separator for fuel gas supply for generator and started dressing out sep. DWC \$569. CWC \$74,809.
- 10/04/97 Gibson Roustabouts finished laying and making up fuel gas lines to Generator for LP separator. DWC \$1,349. CWC \$76,158.
- 10/05/9724 hrs pump 15 MCF, 118 BO and 10 BW on 3 x 130" SPM, TP 50, CP40.DWC \$275.CWC \$76,433.
- 10/06/97 24 hrs pump 15 MCF, 3 BC, 8 x 130" SPM, 50 TP, 20 CP, 2 BLW. CWC \$76,433.
- 10/07/97 24 hrs pump, 61 BO, 8 x 130" SPM, 50 TP, 40 CP, 5 BW. CWC \$76,433.
- 10/09/97 24 hrs flow 51 MCF, 114 BO, flowing up csg, 50 FTP, 100 CP, 0 BLW. CWC \$76,433.
- 10/10/97 24 hrs flow, 15 MCF, 15 BO, 8 x 130" SPM, 55 TP, 90 CP. 1 BW. CWC 376,433.
- 10/11/97
 24 hrs pump 39 MCF, 25 BO, 8 x 130" SPM, 45 TP, 20 CP, 13 BW. CWC 376,433.
- 10/12/97 24 hrs pump, 41 MCF, 10 BC, 3 x 130" SPM, 65 TP, 70 CP, 6 BW. CWC S76,433.

rage 3 DIAMOND "18" FEDERAL NO. 5 ENRON OIL & GAS COMPANY 2,130' FSL & 660' FEL DEV D&C: 12,600' BONT SPRING Sec 18, T25S, R34E RED HILLS Field LEA Co., NM EOG%: 100.0000% WI 82.5000% NRI Spud Date: 09/15/95 AFE No.: 10-1402 DHC: 0; CWC: 113,000 10/13/97 24 hrs pumped, 97 MCF, 120 BO, 8 x 130" SPM, 500 TP, 200 CP, 47 BW, 53 LP. CWC \$76,433. 24 hrs pump, 44 MCF, 3 BC, 10-1/2 x 130" SPM, 45 TP, 10 CP, 53 LP. 10/14/97 CWC \$76,433. 10/15/97 24 hrs pump, 36 MCF, 33 BO, 10-1/2 x 130" SPM, 45 TP, 10 CP, 53 LP. DWC \$345. CWC \$76,778. 24 hrs pump, 67 MCF, 50 BC, 10-1/2 x 130" SPM, 60 TP, 140 CP, 1 10/16/97 BW, 51 LP. CWC \$76,778. 10 hrs MIRU Cobra WSU. Dug out csg valve. W/O rig, MI&Set steel 10/17/97 rig mat. MIRU Rapid transport, pumped 13 bbls PW down tbg. TOH with 3 way tapered rod string and 2-1/2" x 2" x 1-3/4" x 30' 3 tube pump. Pump is stuck closed, will not scope out. Found 85 3/4" spray metal rod couplings severely worn and 13-3/4" rods badly worn. Secured well, SDFN. DWC \$1,995. CWC \$78,773. 10/18/97 8-1/2 hrs tbg kicked and started flowing. Killed well with produced water. RIH with rods replacing worn rods. Well on pump 10.2 x 130" SPM @ 3:30 pm. DWC \$3,375. CWC \$82,148. 10/19/97 20 hrs pump, 48 MCF, 56 BO, 10 x 130" SPM, 60 TP, 320 CP, 65 BW, 55 LP. CWC \$82,148. 10/20/97 1 hr crew to location, 1 hr road rig out. 24 hrs pump, 89 MCF, 34 BO, 10.2 x 130" SPM 50 TP, 60 CP, 0 BW, 54 LP. DWC \$698. CWC \$82,846. 10/21/97 24 hrs pump, 67 MCF, 42 BO, 10.2 x 130" SPM 60 TP, 260 CP, 53 LP. CWC \$82,846. 10/22/97 24 hrs pump, 67 MCF, 42 BO, 10.2 x 130", 60 TP, 260 CF, 53 LP. CWC 382,846. 10/23/97 .24 hrs pmp, 41 MCF, 30 BO, 10.2 x 130" SPM, 95 TP, 260 CP, 53 LP. CWC \$82,846. 11/02/97 Installed poles for power line to location. Incomplete. Dip not hang wire.Should finish Monday 11-03-97. CWC \$82,846. 11/03/97 Building pumping unit. Plan to complete installing service 1/4/97. CWC \$82,846. Building pumping unit. DWC \$7,385. CWC \$90,231. 11/04/97 01/12/98 Shut down prep to change pump. DWC \$1,258. CWC \$91,489.

raye ч DIAMOND "18" FEDERAL NC. 5 ENRON OIL & GAS COMPANY DEV D&C: 12,600' BONT SPRING 2,130' FSL & 660' FEL Sec 18, T25S, R34E RED HILLS Field LEA Co., NM EOG%: 100.0000% WI 82.5000% NRI Spud Date: 09/15/35 AFE No.: 10-1402 DHC: 0; CWC: 113,000 01/13/98 SI. Stripping operation. DWC \$3,031. CWC \$94,520. 01/14/98 Released TAC and TOH. DWC \$2,787. CWC \$97,307. 01/18/98 24 hrs pump, 111 MCF, 67 BC, 10.2 x 130" SPM, 200 TP, 100 CP, 55 BW. CWC \$97,307. 01/19/98 24 hrs pump, 94 MCF, 111 BO, 10.2 x 130" SPM, 150 TP, 125 CP. CWC \$97,307. 01/20/98 No test. CWC \$97,307.



Daimond 18 Fed. No. 5Future Production Before WorkoverIP Rate at WO on 03/97Decline(exp)Oil1100 BOPM43 %/yrGas1800 mcf/mo50 %/yr

Date BOPM MCF/Mo Date Date		Oil	Gas		Oil	Gas		Oil	Can
	Date	BOPM	MCF/Mo	Date			Date		
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